# EXHIBIT

FOLDer 1 P+2

#### APPENDIX A

#### Omega Protein shall:

- 1. Immediately upon issuance of this Order, develop and submit to PRO standard operating procedures to ensure that reporting violations do not reoccur at Omega Protein.
- 2. Within thirty days of the issuance of this Order, submit to the PRO a diagnostic<sup>3</sup> evaluation (DE) of the Omega Protein wastewater treatment system. A state registered professional engineer must conduct the DE. The DE shall be used to determine if the facility, as built, can meet the NPDES permit limits at design flow. The State registered professional engineer shall submit a stamped letter to the Department certifying that the facility can or cannot meet permit limits at design flow as built.
- 3. If the DE indicates that construction of an upgrade is required for the facility to meet permit limits, then sixty days from the issuance of the Order, submit to the PRO a preliminary engineering report and an implementation schedule for the upgrade construction. The schedule, once approved by the PRO, shall become an enforceable part of this Order.



# FAX

TO: DENISE Mosca

FAX:

FROM: John Barres

PHONE:

DATE:

10/20/00 10:37 Am

PAGES:

7 (including this form)

SUBJECT:

puguraput



# COMMONWEALTH of VIRGINIA

#### DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr. Secretary of Natural Resources P.IEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deq.state.va.us

October 18, 2000

Dennis H. Treacy Director

Gerard Seeley, Jr.
Piedmont Regional Director

Mr. Steve Jones, Facility Manager Omega Protein Incorporated P.O. Box 175 Reedville, VA 22539

# **Privileged Settlement Communication**

RE:

Proposed Consent Order Omega Protein Incorporated VPDES VA0003867

Dear Mr. Jones:

Enclosed is a proposed Consent Order for Omega Protein. Please review the draft and provide me with any comments by November 2, 2000.

If you have any questions about the Order, please contact me at (804) 527-5093.

Sincerely

Frank E. Lupini

Enforcement Specialist, Sr.

cc: Omega Protein File

# DRAFT STATE WATER CONTROL BOARD ENFORCEMENT ACTION SPECIAL ORDER BY CONSENT ISSUED TO OMEGA PROTEIN VPDES VA0003867

# SECTION A: Purpose

This is a Consent Special Order issued under the authority of Va. Code §§ 10.1-1185 and 62.1-44.15(8a) and (8d), between the State Water Control Board and Omega Protein, for the purpose of resolving certain violations of environmental law and regulations.

## SECTION B: Definitions

Unless the context clearly indicates otherwise, the following words and terms have the meaning assigned to them below:

- 1. "Va. Code" means the Code of Virginia (1950), as amended.
- 2. "Board" means the State Water Control Board, a permanent citizens' board of the Commonwealth of Virginia as described in Va. Code §§ 10.1-1184 and 62.1-44.7.
- "Department" or "DEQ" means the Department of Environmental Quality, an agency of the Commonwealth of Virginia as described in Va. Code § 10.1-1183.
- 4. "Director" means the Director of the Department of Environmental Quality.
- 5. "Order" means this document, also known as a Consent Special Order.

- 6. "Omega Protein" means Omega Protein Incorporated, certified to do business in Virginia and its affiliates, partners, subsidiaries, and parents.
- 7. "Facility" means the Omega Protein Sewage Treatment Plant located in Reedville, Virginia.
- 8. "PRO" means the Picdmont Regional Office of DEQ, located in Glen Allen, Virginia.
- 9. "Permit" means VPDES permit No. VA0003867, which became effective December 17, 1997 and expires December 17, 2002.
- 10. "O&M" means operations and maintenance.

# SECTION C: Findings of Fact and Conclusions of Law

:

- 1. Omega Protein owns and operates a wastewater treatment facility in Northumberland County, Virginia. This facility is the subject of VPDES permit VA0003867, which allows Omega Protein to discharge treated wastewater into Cockrell's Creek and the Chesapeake Bay in strict compliance with terms, limitations and requirements outlined in the permit.
- 2. On April 28, 1999, DEQ executed a Consent Order with Omega for failing to report an unpermitted discharge. Omega paid a \$7,500 civil penalty and the Order was closed in March 2000. Since the Order has closed, DEQ has noted numerous violations of the State Water Control Law.
- 3. On April 26, 2000, DEQ issued NOV No. 00-03-PRO-001 to Omega citing them for an unpermitted discharge created by sandblasting a vessel in the creek without the proper BMPs in place. In addition, Omega was cited for failure to meet the reporting requirements in its permit by 1) not reporting an unusual discharge which occurred after an equipment failure on July 7, 1999, 2) late submittals of BMP reporting, 3) failure to submit quarterly progress reports, and 4) improper toxicity testing.
- 4. On August 1, 2000, DEQ issued NOV No. W2000-05-K-001 to Omega citing them for late submittal of a quarterly progress report and total suspended solids violations in May 2000.

#### SECTION D: Agreement and Order

Accordingly, the Board, by virtue of the authority granted it in Va. Code § 62.1-44.15(8a) and (8d), orders Omega Protein, and Omega Protein agrees, to perform the actions described in Appendix A of this Order. In addition, the Board orders Omega Protein, and Omega Protein voluntarily agrees, to pay a civil charge of \$21,600 within 30 days of the effective date of the

Order in settlement of the violations cited in this Order. Payment shall be made by check payable to the "Treasurer of Virginia", delivered to:

Receipts Control
Department of Environmental Quality
Post Office Box 10150
Richmond, Virginia 23240

## SECTION E: Administrative Provisions

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- 1. The Board may modify, rewrite, or amend the Order with the consent of Omega Protein, for good cause shown by Omega Protein, or on its own motion after notice and opportunity to be heard.
- 2. This Order only addresses and resolves those violations specifically identified herein. This Order shall not preclude the Board or the Director from taking any action authorized by law, including, but not limited to: (1) taking any action authorized by law regarding any additional, subsequent, or subsequently discovered violations; (2) seeking subsequent remediation of the facility as may be authorized by law; and/or (3) taking subsequent action to enforce the terms of this order. Nothing herein shall affect appropriate enforcement actions by other federal, state, or local regulatory authority, whether or not arising out of the same or similar facts.
- 3. For purposes of this Order and subsequent actions with respect to this Order, Omega Protein admits the jurisdictional allegations, factual findings, and conclusions of law contained herein.
- 4. Omega Protein consents to venue in the Circuit Court of the City of Richmond for any civil action taken to enforce the terms of this Order.
- Omega Protein declares it has received fair and due process under the Administrative Process Act, Va. Code §§ 9-6.14:1 et seq., and the State Water Control Law and it waives the right to any hearing or other administrative proceeding authorized or required by law or regulation, and to any judicial review of any issue of fact or law contained herein. Nothing herein shall be construed as a waiver of the right to any administrative proceeding for, or to judicial review of, any action taken by the Board to enforce this Order.
- Failure by Omega Protein to comply with any of the terms of this Order shall constitute a violation of an order of the Board. Nothing herein shall waive the initiation of appropriate enforcement actions or the issuance of additional orders as appropriate by the Board or the Director as a result of such violations. Nothing herein shall affect appropriate enforcement actions by any other federal, state, or local regulatory authority.

- 7. If any provision of this Order is found to be unenforceable for any reason, the remainder of the Order shall remain in full force and effect.
- 8. Omega Protein shall be responsible for failure to comply with any of the terms and conditions of this Order unless compliance is made impossible by earthquake, flood, other acts of God, war, strike, or such other occurrence. Omega Protein shall show that such circumstances were beyond its control and not due to a lack of good faith or diligence on its part. Omega Protein shall notify the DEQ Regional Director in writing when circumstances are anticipated to occur, are occurring, or have occurred that may delay compliance or cause noncompliance with any requirement of the Order. Such notice shall set forth:
  - a. the reasons for the delay or noncompliance;

- b. the projected duration of any such delay or noncompliance;
- c. the measures taken and to be taken to prevent or minimize such delay or noncompliance; and
- d. the timetable by which such measures will be implemented and the date full compliance will be achieved.

Failure to so notify the Regional Director within 24 hours of learning of any condition above, which the parties intend to assert will result in the impossibility of compliance, shall constitute a waiver of any claim to inability to comply with a requirement of this Order.

- 9. This Order is binding on the parties hereto, their successors in interest, designees and assigns, jointly and severally.
- 10. This Order shall become effective upon execution by both the Director or his designee and Omega Protein. Notwithstanding the foregoing, Omega Protein agrees to be bound by any compliance date which precedes the effective date of this Order.
- 11. This Order shall continue in effect until the Director or Board terminates the Order in his or its sole discretion upon 30 days written notice to Omega Protein. Termination of this Order, or any obligation imposed in this Order, shall not operate to relieve Omega Protein from its obligation to comply with any statute, regulation, permit condition, other order, certificate, certification, standard, or requirement otherwise applicable.
- 12. By its signature below, Omega Protein voluntarily agrees to the issuance of this Order.

#### APPENDIX A

#### Omega Protein shali:

- Immediately upon issuance of this Order, develop and submit to PRO standard
  operating procedures to ensure that reporting violations do not reoccur at Omega Protein.
- 2. Within thirty days of the issuance of this Order, submit to the PRO a diagnostic evaluation (DE) of the Omega Protein wastewater treatment system. A state registered professional engineer must conduct the DE. The DE shall be used to determine if the facility, as built, can meet the NPDES permit limits at design flow. The State registered professional engineer shall submit a stamped letter to the Department certifying that the facility can or cannot meet permit limits at design flow as built.
- 3. If the DE indicates that construction of an upgrade is required for the facility to meet permit limits, then sixty days from the issuance of the Order, submit to the PRO a preliminary engineering report and an implementation schedule for the upgrade construction. The schedule, once approved by the PRO, shall become an enforceable part of this Order.

And it is so ORDERED this	day of, 2000.
	Dennis H. Treacy, Director Department of Environmental Quality
Omega Protein voluntarily agrees to the issu	nance of this Order.
	Ву:
	Date:
Commonwealth of Virginia	
City/County of	<b></b>
The foregoing document was signed and ac	knowledged before me this day of
, 2000, by	, who is
	(name)
of Omega Protein, o	on behalf of the Corporation.
(title)	
	Notary Public
My commission expires:	· · · · · · · · · · · · · · · · · · ·
3	

# BIOLOGICAL MONITORING, INC.

1800 Kraft Drive, Suite 101 • Blacksburg, VA 24060 • Tel 540-953-2821 • Fax 540-951-1481 Visit Our Website: www.biomon.com

October 30, 2000

John Barnes P.O. Box 175 Reedville, VA 2539

RE: Consent Order for Improper Toxicity Testing

Dear Mr. Barnes:

On April 26, 2000 Omega Protein received a Notice of Violation (NOV) citing issued by the VADEQ. Among other things, improper toxicity testing was specified in the citing. Specifically the VADEQ stated that the toxicity testing were conducted improperly based on the following quote from the NOV citing. "Permit condition for WET limit specifies that 20 organisms must be used, however, 10 were used; and, the permit specifies that 4 replicates are used, and only 2 were used."

Biological Monitoring, Inc.(BMI) takes issue with these conclusions. As pointed out in the meeting with the VADEQ on May 15, 2000, the correct number of organisms per exposure concentration (20) was properly used. With the respect to the number of replicates, BMI acknowledges that 2 replicates were used rather than 4 replicates as stated in the permit. However, this requirement is unique to this permit. Most permitees are required to follow the methods listed in EPA/600.4-90/027F. BMI generally follows this method which states a minimum of 10 organisms per replicate, not 5 as stated in the permit.

It may further be argued that the use of the extra two replicates would not have made a difference in this instance due to complete organism mortality in the 100% effluent concentration at 24 hours.

I trust the information stated meets your needs. BMI appreciates the opportunity to provide your group with our services.

Sincerely,

Anthony Smith Laboratory Manager



# Memorandum

RECEIVED

To:

**CAMILE COOK** 

70 3 4 SOCA

CC:

STEVE JONES

PRC

From:

LYELL JETT

Date:

11/21/00

Re:

REQUESTED INFORMATION

ENCLOSED YOU WILL FIND THE INFORMATION THAT WAS REQUESTED DURING OUR INSPECTION LAST MONTH. I THINK I HAVE EVERYTHING THAT YOU REQUESTED, IF NOT PLEASE LET ME KNOW

#### ZAPATA PROTEIN REEDVILLE, VIRGNIA DMR REPORTING

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10/04/00	. 7.2	28	608400	7.59	26	137509			Î	7.2	28	1053000	1.6
10/05/00	7.14	33	4867200	7.46	27	40100	7.14	33	1102815	7.14	33	8424000	14:
10/06/00	7.14	32	4867200	7.47	26	187700			i	7.14	32	8424000	
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10/08/00 i			ĺ	7.54	21	142000			Î				
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10/19/00	7.34	24	811200	7.62	20	245100	7.34	24	3966800	7.34	24	1404000	-
10/20/00	7,75	22	1419600	7.72	19	206600	7.95	22	3526080	7.95	22	2457000	7.
10/21/00	7.36	26	2028000	7.7	19	181000	7.36	26	5289120	7.36	26	3510000	
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10/26/00	7.21	29	4867200	7.93	19	215700			i	7.28	29	8424000	
10/27/00	7.21	29	4867200	7.8	19	345700			i	7.21	24	8424000	10
10/28/00	7.86	26	4867200	7.9	21	424400			i	7.86	26	8424000	
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10/31/00				7.9	12	53200 j			i		' بار	R	

#### Gilbert W. Clifford & Associates, Inc.

150 C Olde Greenwich Dr., Fredericksburg, Va. 22404 (540) 898-2143

#### OMEGA PROTEIN, INC. WATER QUALITY DATA 2000

Date	Station	Time	Field	Effluent	BOD-5	TSS	Oil &	NH3-N	TKN-N	NO2-N	NO3-N	Total-N	Total	
			pΗ	Flow			Grease						PO4-P	Cyanide
				(MGD)	(mg/L)	(mg/L)	(mg/L)							
		yare years												
10/04	R1	0730	7.20	0.608	6.4	8.8	<5							
10/05	R1	0725	7.14	4.867	6.4	5.2	<5							
	R4	0725	7.14	1.103				3.81						
	R5	0725	7.14	8.424				8.46						
10/06	R1	0740	7.14	4.867	6.2	7.0	<5	5.04	9.24	0.300	0.172	9.71	0.185	
10/10	R2	0725	7.55	0.088	119	340.0	<5	99.7						
10/13	R1	0735	7.27	4.461	12.8	14.3	5.2	8.68	12.9	0.290	0.229	13.4	0.181	
10/14	R1	0730	7.32	4.867	15.6	15.2	<5							
10/15	R1	0635	7.65	3.853	16.4	11.9	<5							
10/17	R1	0710	7.68	2.231	32.9	37.6	6.3							
	R2	0805	7.32	0.107				98.6						
10/18	R1	0735	7.06	2.434	9.2	10.8	<5							
10/19	R1	0735	7.34	0.811	9.2	12.0	<5							
	R4	0735	7.34	3.967				1.01	3.81	<.01	0.118	3.94	0.155	
10/20	R2	0755	7.72	0.207	69.2	24.0	<5	116						
10/23	R1	0725	7.14		3.4	10.0	<5			÷.				
	R5	0725	7.14					3.3	3.49	<.01	0.185	3,69	0.141	
10/24	R1	0710	7.17		6.4	6.9	<5							
10/25	R1	0650	7.21		7.2	8.1	<5							

All analyses were performed in accordance with "Standard Methods", eighteenth edition or EPA Procedure Manual, 1983. \*No results reported, due to holding time for BOD5 being exceeded.

Station

R1- Scrubbers Discharge #001

Descriptions:

R2- Wastetreatment Lagoon Discharge #002

R3- Chesapeake bay discharge #003

R4- Evaporator Cooling Water Discharge #004 R5- Evaporator Cooling Water Discharge #005

R6- Combined R1, R4 & R5 #006

Method Codes:

BOD-5 5210-B NH3-N 4500-NH3 B&E

N03-N 4500-N03 E, 352.1

TSS 2540-D TKN-N 4500-N org B

Tot. P04-F 4500-P E

O&G 5520-B NO2-N 4500-N02 B

## Gilbert W. Clifford & Associates, Inc.

150 C Olde Greenwich Dr., Fredericksburg, Va. 22404 (540) 898-2143

#### OMEGA PROTEIN, INC. WATER QUALITY DATA 2000

Date	Station	Time	Field pH	Effluent Flow	BOD-5	TSS	Oil & Grease	NH3-N	TKN-N	NO2-N	NO3-N	Total-N	Total PO4-P
				(MGD)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
10/04	Cockrell Creek					9.4							
10/05	Cockrell Creek					<b>8</b> .9							
10/06	Cockrell Creek					8.7							
10/13	Cockrell Creek					10.2							
10/14	Cockrell Creek					13.7							
10/15	Cockrell Creek					9.9							
10/17	Cockrell Creek					38.9							
10/18	Cockrell Creek					10.8							
10/19	Cockrell Creek					12.2					63		
10/23	Cockrell Creek					9.4							
10/24	Cockrell Creek					9.5							
10/25	Cockrell Creek					32							

All analyses were performed in accordance with "Standard Methods", eighteenth edition or EPA Procedure Manual, 1983. \*No results reported, due to holding time for BOD5 being exceeded.

Station

R1- Scrubbers Discharge #001

Descriptions:

R2- Wastetreatment Lagoon Discharge #002

R3- Chesapeake bay discharge #003

R4- Evaporator Cooling Water Discharge #004 R5- Evaporator Cooling Water Discharge #005

R6- Combined R1, R4 & R5 #006

**Method Codes:** 

BOD-5 5210-B NH3-N 4500-NH3 B&E N03-N 4500-N03 E, 352.1

TSS 2540-D TKN-N 4500-N org B Tot. P04-F 4500-P E

O&G 5520-B NO2-N 4500-N02 B

#### COWIMONWEALTH OF VIRGINIA DEPARTMENT OF E. RONMENTAL QUALITY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)** 

PERMITTEE NAME/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

NAME ADDRESS Omega Protein, Inc.

P. O. Box 175

Reedville VA 22539

Omega Protein FACILITY

VA0003867 PERMIT NUMBER

001 DISCHARGE NUMBER

MONITORING PERIOD MO DAY YEAR MO DAY FROM 00 10 1 TO 00 10 31

Industrial Major

/1999

**DEPT. OF ENVIRONMENTAL QUALITY** (REGIONAL OFFICE)

Kilmarnock Regional Office P.O Box 669 429 Bast Church Street Kilmarnock VA 22482 (804) 435-3181

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM

			OR LOADING		QUALITY OR CO	ONCENTRATION		BEFORE CO	APLEIN	NG THIS FORM.	
PARAMETER	(	AVERACE	***********	2 254		*** *** **	351		NO.	FREQUENCY	SAMPLE
***		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	OF ANALYSIS	TYPE
001 Flow	REPORTED	3.274	4.867		*******	******	******		-	CONT	EST
	PERMIT REQUIREMENT	NL	NL	MGD	******	******	******		-	CONT	EST
002 PH	REPORTED	*****	******	in in	7.05	******	8.23		0	1/D	GRAB
	PERMIT REQUIREMENT	****	****		6.	******	9.0	SU	-	3D/W	GRAB
003 BOD5	REPORTED	134	287		*****	******	******		0	3D/W	24HC
	PERMIT REQUIREMENT	1755	3142	KG/D	******	******	******		-	3D/W	24HC
004 TOTAL SUS.SOLIDS	REPORTED	147	318		*****	******	*****		0	3D/W	24HC
	PERMIT REQUIREMENT	655	1609	KG/D	*****	*****	******		10	3D/W	
012 TOTAL PHOSPHORUS	REPORTED	3.24	3.41		*****	.183	.185		0	2/M	24HC
	REQUIREMENT	37.85	NL	KG/D	******	2.	NL	MG/L	-	2/M	24HC
013 TOTAL NITROGEN	REPORTED	203	226		* ****	11.6	13.4	1107 11		2/M	24HC
	REQUIREMENT	NL	NL	KG/D	******	NL	NL	MG/L		2/M	24HC
080 TEMPERATURE	REPORTED	*****	*****		****	*****	33		0	1/D	IS
£ 2907	PERMIT REQUIREMENT	*****	******		******	*******	50.	С		1/DAY	IS
GREASE	REPORTED	65.12	92.1		******	*****	*****	<b>-</b> ,		3D/W	GRAB
ADDITIONAL PERMIT REQUIREMEN	PERMIT REQUIREMENT	372	685	KG/D	******	*****	******		-	3D/W	GRAB

BYPASSES AND OVERFLOWS	OCCURRENCES	(M. G.)	TOTAL BODS (K. G.)	OPERATOR IN RESPO	ONSIBLE CHARGE			DATE	
I CERTIFY UNDER PENALT UNDER MY DIRECTION OR	Y OF LAW THAT THIS DOCUM SUPERVISION IN ACCORDAN	NCE WITH A SYSTEM DESIGN	NED TO ASSURE THAT	TYPED OR PRINTED NAME	SIGNATURE	CERTIFICATE NO.	YEAR	MO.	DAY
MY INQUIRY OF THE PERSONSIBLE FOR GATHE	OPERLY GATHER AND EVAL ON OR PERSONS WHO MANAC RING THE INPORMATION, THI	GE THE SYSTEM OR THOSE P E INPORMATION SUBMITTED	PERSONS DIRECTLY D IS TO THE BEST OF	PRINCIPAL EXECUTIVE OFFICER	OR AUTHORIZED AGENT	TELEPHONE			L
SIGNIFICANT PENALTIES P	IEF TRUE, ACCURATE AND C OR SUBMITTING FALSE INPO KNOWING VIOLATIONS SEE	RMATION, INCLUDING THE	POSSIBILITY OF FINE						
these statutes may include fine	up to \$10,000 and/or maximum i	imprisonment of between 6 month	ht and 5 years.)	TYPED OR PRINTED NAME	SIGNATURE	CODE NUMBER	YEAR	MO.	DAY

#### CUMINONWEALTH OF VINGINIA *RONMENTAL QUALITY* DEPARTMENT OF EN NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)** 

PERMITTEE No...e/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

Omega Protein, Inc. NAME P. O. Box 175 ADDRESS

Reedville VA 22539

Omega Protein FACILITY

VA0003867 PERMIT NUMBER

002 DISCHARGE NUMBER

90. L MONITORING PERIOD YEAR MO DAY YEAR MO DAY **FROM** 00 10 00 31, ı. 1 10

DEPT. OF ENVIRONMENTAL QUALITY

12

1999

(REGIONAL OFFICE)

Kilmarnock Regional Office P.O Box 669 429 East Church Street Kilmarnock VA 22482 (804) 435-3181

Industrial Major

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING THIS FORM.

								DELOKE COM	r CE (III	NG THIS FORM.	
PARAMETER	a., "Legation		OR LOADING		QUALITY OR CO		5 7		NO.	FREQUENCY	SAMPLE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	EXL	OF ANALYSIS	TYPE
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	PERMIT REQUIREMENT	NL	NL	MGD	****	*****	******	- Tr		CONT	MEAS
)02 РН	REPORTED	******	*******		7.19	******	8.05	Proper	0	1/D	GRAB
	PERMIT REQUIREMENT	*****	*****	y 100 100	6	*****	9.0	SV		2D/W	GRAB
003 BOD5	REPORTED	46.9 V	54.2 ✓		******	*****	*****		0	2/M	24HC
	PERMIT . REQUIREMENT	468	837	KG/D	******	*****	******			2/M	24HC
004 TOTAL SUS:80LIDS	REPORTED	66 🗸	113 🗸		******	*****	*****		0	2/M	24HC
	PERMIT REQUIREMENT	171	422	KG/D	******	******	*****			2/M	24HC
080 Temperature	REPORTED	******	*****		*****	20	27 /		-	1/D	IS
	REQUIREMENT	******	******		*****	NL	NL	С		1/DAY	IS
379 TOXICITY FINAL, ACUTE	REPORTED	<b>******</b> Startist	*****	tanger of a		*****	******			2.	
	REQUIREMENT	******	*******		100% EFF	******	*****	8	1.97	1/3M	24HC
500 OIL & Grease	REPORTED	2380	3.92	ly. p	******	*****	*****		0	2/M	GRAB
	PERMIT	27.6	50.9	KG/D	******	******	*****			2/M	GRAB
변 역 및	REPORTED	Section 1	Sieveni iv	ाष्ट्र ह	*C #2	H.		V2ES 93		41	
	PERMIT REQUIREMENT	8									

ADDITIONAL PERMIT REQUIREMENTS OR COMMENTS

BYPASSES AND	OCCURRENCES	(M. G.)	TOTAL BODS (K. G.)	OPERATOR IN RESPO	ONSIBLE CHARGE				DATE	
OVERFLOWS							J.	867		
	Y OF LAW THAT THIS DOCUM SUPERVISION IN ACCORDAN			TYPED OR PRINTED NAME	SIGNATURE	CEF	RTIFICATE NO.	YEAR	MO.	DAY
MY INQUIRY OF THE PERS	OPERLY GATHER AND EVAL ON OR PERSONS WHO MANAG	GE THE SYSTEM OR THOSE I	PERSONS DIRECTLY	PRINCIPAL EXECUTIVE OFFICER	OR AUTHORIZED AGENT	T	ELEPHONE	1	-	-
MY KNOWLEDGE AND BEI SIGNIFICANT PENALTIES I	RING THE INPORMATION, THI JEF TRUE, ACCURATE AND C OR SUBMITTING FALSE INPO	OMPLETE. I AM AWARE TH RMATION, INCLUDING THE	IAT THERE ARE POSSIBILITY OF FINE	350 a 25						
	KNOWING VIOLATIONS, SEE s up to \$10,000 and/or maximum i			TYPED OR PRINTED NAME	SIGNATURE	AREA CODE	NUMBER	YEAR	MO.	DAY

#### VOILLOW VIRGINIA

# DEPARTMENT OF EN' ONMENTAL QUALITY NATIONAL POLLUTANT DISCHA... E ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

DISCHA

003 DISCHARGE NUMBER

PERMITTEE NA

NAME

ADDRESS

FACILITY

ADDRESS (INCLUDE

Omega Protein, Inc.

Reedville VA 22539

FACILITY NAME/LOCATION IF DIFFERENT)

P. O. Box 175

Omega Protein

PERMIT NUMBER

DISCHA NUMBER

MONITORING PERIOD

VA0003867

FROM

MO DAY 10 YEAR MO DAY 10 1 TO 00 10 31

Industrial Major

12/ :999

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Kilmarnock Regional Office P.O Box 669

429 East Church Street Kilmarnock VA 22482

(904) 435-3181

PAGE

1 OF

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS
BEFORE COMPLETING THIS FORM

PARAMETER		QUANTITY	OR LOADING	d u	QUALITY OR CO	ONCENTRATION			LETT	IG THIS FORM.	
Me la	i r mee med	AVERAGE	MUMIXAM	UNITS	MINIMUM	AVERAGE	MAXINON	UNITS	NO, EX.	FREQUENCY OF ANALYSIS	SAMPLE TYPE
PLOW	REPORTED	× 1.02 × 11			*****	********		·	-	ANACTSIS	
002	PERMIT REQUIREMENT	NL	NL	MGD	******	*****	*******		-		
PH	REPORTED	*****	*****			**/**		* *	-	CONT	EST
	PERMIT REQUIREMENT	******	*****		6.	V- 1/2 - 1/2	9.	077			
003 90DS	REPORTED			==	******	<b>\</b>	******	SU		2/M	GRAB
004 TOTAL	PERMIT REQUIREMENT	4296	7710	KG/D	***	/*****	*****			2/M	24HC
SUS.SOLIDS	REPORTED				4	*****	******			2/11	24HC
	PERMIT REQUIREMENT	114	282	RG/D	*******	*****	******			2 /24	
DO7 DIS. DXYGEN	REPORTED	*****	******		,		******			2/M	24HC
	REQUIREMENT	*****	******		NL	NL	******				
080 EMPERATURE	REPORTED	*******	******	7	*****	142		MG/L		1/DAY	GRAB
500 OIL &	REQUIREMENT	****	***		******	NL	NL	С		1/DAY	IS
REASE		1		3904	*******	******	*****				
	PERMIT REQUIREMENT	426	784	KG/D	******	*****	*****			2/M	9717
. *	REPORTED	1 /	: <b>∓</b> ¥							2/M	GRAB
ADDITIONAL PERMIT REQUIREME	PERMIT REQUIREMENT	·									

TOTAL TOTAL FLOW **BYPASSES** TOTAL BODS **OPERATOR IN RESPONSIBLE CHARGE OCCURRENCES** AND [M. G.) (K. G.) DATE **OVERFLOWS** I CERTIFY UNDER PENALTY OF LAW THAT THIS INCLUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT TYPED OR PRINTED NAME SIGNATURE CERTIFICATE NO. QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON YEAR MO. DAY MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT TELEPHONE RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF MY KNOWLEIGE AND HELIEF TRUE ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING PALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS SEE IS U.S.C. & 1001 AND 33 U.S.C. & 1319 (Penaltics under these manter may include fines up to \$10,000 and or maximum insprisonment of between 6 months and 3 years 1 TYPED OR PRINTED NAME SIGNATURE NUMBER DEQ NPDES FORM 5 YEAR MO. DAY CODE

#### SOMEOUR FULLION AUXOUALY

#### DEPARTMENT OF EN ONMENTAL QUALITY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PERMITTEE NA. ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

Omega Protein, Inc. NAME ADDRESS P. O. Box 175

Reedville VA 22539

Omega Protein FACILITY

VA0003867 **PERMIT NUMBER** 

004 DISCHARGE NUMBER

	-	MC	OTING	RING	PERI	OD	
	YEAR	МО	DAY		YEAR	МО	DAY
FROM	00	10	1	то	00	10	31

Industrial Major

999

#### DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Kilmarnock Regional Office P.O Box 669 429 East Church Street

Kilmarnock VA 22482

(804) 435-3181

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS

PARAMETER		QUANTITY	OR LOADING		QUALITY OR CO	ONCENTRATION		T ;		IG THIS FORM.	<u> </u>
***		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX.	FREQUENCY OF . ANALYSIS	SAMPLE TYPE
PLOW PLOW	REPORTED	3.471	5.289		*****	******	*****	Ρ,	_	CONT	EST
	PERMIT	NL	NL	MGD	*****	******	******		-		
002 РН	REPORTED	******	*****		7.14	*****	7.95		0	CONT 1/D	GRAB
	PERMIT REQUIREMENT	*****	******		6.	*****	9.	SU		5D/W	GRAB
PHOSPHORUS	REPORTED	2.33	2.33		****	.155	.155	50	0	1/3M	24HC
	PERMIT REQUIREMENT	93.9	NL	KG/D	*****	2.	NL	MG/L	-	1/3M	24HC
013 TOTAL NITROGEN	REPORTED	59.2	59.2		*****	3.94	3.94	110,2	-	1/3M	24HC
	PERMIT	NL	NL	KG/D	*****	NL	NL	MG/L	-	- 100	0.455
039 AMMONIA AS N	REPORTED	*****	*****		*****	2.41	3.81	МСУП	-	1/3M 2/M	24HC 24HC
	REQUIREMENT	*****	*****		*****	NL	NL	MG/L	-	2/M	24HC
080 Temperature	REPORTED	*****	******		*****	26.3	33		0		
	REGUIREMENT	******	******	:	*****	NL	45	С	-	1/D 1/DAY	IS IS
말	REPORTED	to the s	. 1 Pr.	921 13	W.	W.	45			I/DAI	12
	PERMIT REQUIREMENT										
.0	REPORTED	Ų.					-				
ADDITIONAL PERMIT REQUIREMEN	PERMIT REQUIREMENT										

BYPASSES  AND  OVERFLOWS	OCCURRENCES	(M. G.)	TOTAL BODS (K. G.)	OPERATOR IN RESPO	ONSIBLE CHARGE				DATE	
INDER MY DIRECTION I	LTY OF LAW THAT THIS DOCUM OR SUPERVISION IN ACCORDAL PROPERLY GATHER AND EVAL	NCE WITH A SYSTEM DESIGN	TAHT BRUZZA OT DBN	TYPED OR PRINTED NAME	SIGNATURE	CEI	RTIFICATE NO.	YEAR	MO.	DAY
Y INQUIRY OF THE PE ESPONSIBLE FOR GATI	RSON OR PERSONS WIFO MANA HERING THE INFORMATION, TH	GE THE SYSTEM OR THOSE P IE INFORMATION SUBMITTED	PERSONS DIRECTLY DIS TO THE BEST OF	PRINCIPAL EXECUTIVE OFFICER	OR AUTHORIZED AGENT	1	ELEPHONE			
IGNIFICANT PENALTIE	PELIEF TRUE, ACCURATE AND O S POR SUBMITTING FALSE INFO OR KNOWING VIOLATIONS SEE	DRMATION, INCLUDING THE	POSSIBILITY OF FINE							
here statutes may are lade (	DES FORM 5	Imprisonment of between 6 month	hs and 5 years )	TYPED OR PRINTED NAME	SIGNATURE	CODE	NUMBER	YEAR	MO.	DAY

# DEPARTMENT OF EN "RONMENTAL QUALITY NATIONAL POLLUTANT DISCH. JE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

VA0003867 PERMIT NUMBER

PERMITTEE N

NAME

FACILITY

ADDRESS (INCLUDE

Omega Protein, Inc.

Reedville VA 22539

FACILITY NAML LOCATION IF DIFFERENT)

Omega Protein

ADDRESS P. O. Box 175

005 DISCHARGE NUMBER

MONITORING PERIOD YEAR MO DAY YEAR MO DAY FROM 00 10 1 TO 00 10 31 Industrial Major

1999

12

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Kilmarnock Regional Office P.O Box 669 429 East Church Street Kilmarnock VA 22482

(804) 435-3181

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS

PARAMETER	*	QUANTITY	OR LOADING		QUALITY OR CO	QUALITY OR CONCENTRATION BEFORE CO					T
The St	×	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MUMIXAM	UNITS	NO. EX.	FREQUENCY	SAMPLE TYPE
LTOM 001	REPORTED	5.781	8.424		******	****	******			CONT	EST
	PERMIT REQUIREMENT	NL	NL	MGD	*******	*****	*****	21.	1		
Э02 РН	REPORTED	******	*****		7.05	****	8.23		0.	1/D	EST
	PERMIT REQUIREMENT	*****	*****		6.	******	9.0	SU	0.	5D/W	GRAB
PHOSPHORUS	REPORTED	4.50	4.50		******	.141	.141		0	S-341-70-20	
212 70-11	PERMIT REQUIREMENT	93.9	NL	KG/D	******	2.	NL	MG/L	0	1/3M 1/3M	24HC 24HC
013 TOTAL NITROGEN	REPORTED	118	118		*****	3.69	3.69	-10/-	-	1/3M	24HC
	PERMIT REQUIREMENT	NL	NL	KG/D	******	NL	NL	MG/L			
D39 AMMONIA AS N	REPORTED	******	******		******	5.88	8.46	MG/L	-	1/3M 2/M	24HC 24HC
	REQUIREMENT	******	******		******	NL	NL	MG/L	-	2/M	
080 TEMPERATURE	REPORTED	*****	*****		****	26.8	33	110/11	0	1/D	24HC IS
	REQUIREMENT	*****	******		*****	NL	45	С	l-	1/DAY	IS
	REPORTED						45			I/DAI	15
(9.5) (4.44)	PERMIT REQUIREMENT										
	REPORTED							= =====================================			
ADDITIONAL PERMIT REQUIREM	PERMIT REQUIREMENT										

BYPASSES AND OVERFLOWS	OCCURRENCES	(M. G.)	(K. G.)	OPERATOR IN RESP	7			DATE			
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT ON A STREET PERSONNEL PROPERTY CATURE AND ACCURATE AND A			TYPED OR PRINTED NAME	SIGNATURE	CE	RTIFICATE NO.	YEAR	MO.	DAY		
MY INQUIRY OF THE PERSO RESPONSIBLE FOR GATHE	JUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. HASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THUSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS TO THE BEST OF			PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE				
SIGNIFICANT PENALTIES F AND IMPRISONMENT FOR	HEF TRUE, ACCURATE AND C OR SUBMITTING FALSE INFO KNOWING VIOLATIONS. SEE	RMATION, INCLUDING THE	POSSIBILITY OF FINE								
DEQ NPDE	S FORM 5	imprisossucut of between 6 mon	slit and 5 years )	TYPED OR PRINTED NAME	SIGNATURE	CODE	NUMBER	YEAR	MO.	DAY	

# ....... U TINOMIA

DEPARTMENT OF EI RONMENTAL QUALITY NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT (DMR)

PERMITTEE ! :/ADDRESS (INCLUDE FACILITY NAME/LOCATION IF DIFFERENT)

Omega Protein, Inc. NAME ADDRESS P. O. Box 175

Reedville VA 22539

Omega Protein FACILITY

VA0003867 PERMIT NUMBER

006 DISCHARGE NUMBER

MONITORING PERIOD YEAR MO DAY YEAR MO DAY FROM 00 10 TO 00 10 31

Industrial Major

/1999

DEPT. OF ENVIRONMENTAL QUALITY (REGIONAL OFFICE)

Kilmarnock Regional Office P.O Box 669 429 East Church Street Kilmarnock VA 22482 (804) 435-3181

NOTE: READ PERMIT AND GENERAL INSTRUCTIONS

PARAMETER		QUANTITY OR LOADING			QUALITY OR C	QUALITY OR CONCENTRATION				IG THIS FORM.	T	
001		AVERAGE	MAXIMUM	UNITS	WINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EXL	FREQUENCY OF ANALYSIS	SAMPLI TYPE	
FLOW	REPORTED	9.716	14.394		*******	******	******				+	
002	PERMIT REQUIREMENT	NL	NL	MGD	*****	*****	******		_	CONT	EST	
PH	REPORTED	*****	******		7.05	*******	8.23		_	CONT	EST	
000	PERMIT REQUIREMENT	*******	****	-	6.	*****	9.		0	1/D	GRAB	
003 BOD5	REPORTED	383 🗸	785	_	*****	******	******	SU	0	3D/W 3D/W	GRAI 24HC	
004 TOTAL	PERMIT REQUIREMENT	1755	3142	KG/D	******	******	******			3D/W	24HC	
US.SOLIDS	REPORTED	417 🗸	817 🗸	/	******	******	*****		0	3D/W	24HC	
012 TOTAL	PERMIT REQUIREMENT	655	1609	KG/D	*****	******	*****					
HOSPHORUS	REPORTED	1. 8.83	9.31		******	166 -183	.185		0	3D/W 2/M	24HC	
113 mom	REQUIREMENT	178.4	NL	KG/D	*****	2.	NL	200 /2				
13 TOTAL ITROGEN	REPORTED	34b 553	618		*****	7.6911.6	13.4	MG/L		2/M	24HC	
	REQUIREMENT	NL	NL	KG/D	*****	NL	NL NL		-	2/M	24HC	
80 EMPERATURE	REPORTED	******	*******		******	****		MG/L		2/M	24HC	
12	PERMIT	******	******		*****		33 V	W	0	1/D	IS	
00 OIL &	REPORTED				*****	*****	45.	С		1/DAY	IS	
REASE	PERMIT REQUIREMENT	186 V	272			*****	****		0	3D/W	GRAB	
ADDITIONAL PERMIT REQUIRE	REQUIREMENT	3/2	685	KG/D	*****	******	*****			3D/W	GRAB	

BYPASSES AND OVERFLOWS	OCCURRENCES	TOTAL FLOW (M. G.)	TOTAL BODS (K. G.)	OPERATOR IN RESPO				DATE		
I CERTIFY UNDER FENALT UNDER MY DIRECTION OR	OF LAW THAT THIS DOCUM	MENT AND ALL ATTACHMEN	VTS WERE PREPARED	TYPED OR PRINTED NAME	CICALATURE					
QUALIFIED PERSONNEL PR	UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY CATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION. THE INFORMATION SUBMITTED IS TO THE BEST OF				SIGNATURE	CERTIFICATE NO.		YEAR	MO.	DAY
RESPONSIBLE FOR GATHER				PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT			TELEPHONE		-	_
MY KNOWLEDGE AND HELIEF TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT FEMALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS. SEE 18 U.S.C. & 1001 AND 33 U.S.C. &1191; (Penalites under			POSSIBILITY OF FINE							
these statutes may include fines	up to \$10,000 and or maximum	imbejmennen at permeen a mont	hs and 5 years.)	TYPED OR PRINTED NAME	SIGNATURE	AREA	Million	YEAR		
DEQ NPDE	DEQ NPDES FORM 5			- COMMITTIE		CODE NUMBER		R MO.	DAY	

PAGE

# ZAPATA PROTEIN REEDVILLE, VIRGNIA

**DMR REPORTING** PATE 21 **EVAP. 004** LAGOON 002 **EVAP. 005** SCRUBBER 001 TEMP TEMP TEMP TEMP С FLOW С C C **FLOW** pΗ pΗ **FLOW FLOW** pН DATE pH 7.32 28 22 254100 3042000 7.32 28 3042000 7.44 10/01/00 7.71 21 241400 10/02/00 28000 7.63 25 10/03/00 28 7.59 26 137509 7.2 1053000 28 608400 10/04/00 7.2 7,14 33 1102815 33 40100 7.14 8424000 4867200 7.46 27 10/05/00 7.14 33 26 187700 7.14 32 8424000 4867200 7.47 32 10/06/00 7.14 27 296400 7.05 4212000 28 1216000 7.53 10/07/00 7.05 7.54 21 142000 10/08/00 150600 7.66 20 10/09/00 88000 7.55 17 10/10/00 54800 7.46 17 10/11/00 97600 7.24 16 10/12/00 24 7.19 17 165800 7.27 7722000 4461000 7.27 24 10/13/00 7.32 27 166900 8424000 4867200 7.21 18 27 10/14/00 7.32 7.28 19 98000 7.65 8424000 3853200 25 10/15/00 7.65 325600 7.27 21 10/16/00 22 106900 7.68 30 3512000 7.32 30 2230800 10/17/00 7.68 25 271000 7.08 4212000 2433600 7.44 22 25 10/18/00 7.06 7.62 20 245100 7,34 24 3966800 7.34 24 1404000 24 811200 10/19/00 7.34 22 3526080 7.95 7.95 2457000 1419600 7.72 19 206600 22 7.75 10/20/00 181000 7.36 26 5289120 7.36 26 3510000 7.7 26 2028000 19 10/21/00 7.36 8.23 27 192100 8424000 4867200 7.78 22 10/22/00 8.23 27 20 222500 7.14 8424000 4867200 8.05 26 10/23/00 7.14 4867200 7.87 17 217600 7.17 8424000 26 7.17 10/24/00 8044533959 7.21 28 1825000 225700 28 1825000 8.01 19 10/25/00 7.21 29 8424000 4867200 7.93 19 215700 7.28 10/26/00 7.21 29 345700 7.21 24 8424000 7.8 19 29 4867200 10/27/00 7.21 7.9 21 424400 7.86 26 8424000 4867200 26 7.86 10/28/00 15 267700 7.22 4212000 1014000 7.9 10/29/00 7.72 187800 0.01 14 10/30/00 53200 7.9 12 10/31/00 11/01/2000 20:05 154.8 5.838 29.79 105 13.885 TOTAL 155.03 568 7.45 26.3 5.781 3.471 1188 7.37 7.14 .028 7.05 22 スス 1.103 MIN. 7.05 22 7.19 -608 12 . 424 7.95 33

8.05

4.867

33

27

5.289

8,23

33

8.424

#### Chesapeake Bay Water Quality Monitoring Data

Predischarge

After Discharge

Date	Time of Sample	BOD (mg/L)	DO (mg/L)	AMM (mg/L)	Temp C	pH SU	Salinity ppt	Time of Sample	BOD (mg/L)	DO (mg/L)	AMM (mg/L)	Temp C	pH (SU)	Salinity ppt
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
12														
13														
14														
15														
16														
17														
18														
19														
20														
21														
22														
23														
24					*0									
25	1330	3.5	7.8	0.170	19	6.6	14.5	1340	3.7	8.0	0.143	18.5	6.5	14.6
26														
27														
28														
29														
30														
31														

Name of Vessel	Shearwater	6
Name of Sampler	Andy Hall	

# Chesapeake Bay Water Quality Monitoring Data

#### Predischarge

#### After Discharge

ate	Time of Sample	BOD (mg/L)	DO (mg/L)	AMM (mg/L)	Temp C	pH SU	Salinity ppt	Time of Sample	BOD (mg/L)	DO (mg/L)	AMM (mg/L)	Temp C	pH (SU)	Salinity ppt
1														
2														
3														
4														
5														
6														
7														
8														
9														
10														
11														
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15														
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19														
20														
21														
22														
23														
24														
25	2000	4.1	8.0	0.120	18	6.8	14.6	2020	11.6	7.9	0.181	18	6.0	14.6
26										-11-1				
27														
28														
29														
30														
31														

Name of Vessel	LANCASTER	
Name of Sampler	Andy Hall	

gilbert w. clifford & associates, inc.
P. O. Box 781 / 150-C Olde Greenwich Drive
Fredericksburg, Virginia 22404
(540) 898-2115

Must be filled out in ink	
WS ID#	SAMPLE COLLECTION INFORMATION
lient Omega Protein like	Location is nefered all me alexander
ontact Person, Lyell Dec-	Date/Time 10 - 25
Mailing Address 20. 30. 1/5	Grab/Composite
Read #1112 712 22539-0175	Collected By
elephone No. 804-453-42112	Collected For VPPES
	(NPDES Monitoring etc.)
LABORATORYINFORMATION	Sample Type
	Water (first draw tap, distribution, source water, well)
ample ID# 2002 124 - 2427	
Method of Shipment	
No. of containers received	pH must be recorded to show pH is 2 or less.
Received by The English Co.	Date/Time 102(1 X2) REQUESTED ANALYSES:
Relinguished by	Date/Time 3.26/ 8:25
Received by A. C.	Date/Time adagliczi
Relinquished by	Date/Time 1/20
Received by	Date/Time/02740/0888
Relinquished by	Date/Time // /
Released from lab by	Date/Time/
(1) 100000000000000000000000000000000000	t Quantity Mimproper Container

No 4136 3 4

gilbert w. clifford & associates, inc.
P. O.Box 781 / 150-GOlde Greenwich Drive

NOIC:	<u>OFCUSTODY RECORD</u>
Must be filled out in ink.	Superindent of the control of the co
WS ID#	SAMPLE COLLECTION INFORMATION
lient Onega Profess, Marc	Location Omega Prolom
ontact Person Byon Science	Date/Time 10-25-00-650
Mailing Address Pro Continue	Grab Composife
THE PROPERTY OF THE PARTY OF	Collected By R Hall
elephone No: 2000 (800) (532)	Gollected For W.P.O.F.S
	(NPDES Monitoring etc.)
LABORATORYINFORMATION	Samp eType
	Water, (first draw tap, distribution, source water, well)
ample ID# 33 Wis 9051 5110	Wastewater (influent, effluent, soil, sludge)
Method of Shipments	NOTE: If an acid preservative is added to sample, field
No. of containers received ***	pH must be recorded to show pH is 2 or less.
Received by Bulleton	Date/Time 10-25/17/5704 REQUESTED ANALYSES:
Relinquished by And How	Date/Time 10-25-19:30
Received by A Sandard N	Date 7, Time 10/25/11:36 11
Relinquished by	Date/Time 10-25-1/1/20
Received by W. Z. Williams	Date/Time/0-26-09 0800
Relinquished by	Date/Time /
Released from lab by	Date/Time/

gilbert w. clifford & associates, inc.
P. O. Box 781 / 150 C Olde Greenwich Drive
Fredericksburg Virginia 22404
(540) 898-2115

Note: Must be filled out in ink	OF CUSTODY RECORD
PWS ID#	SAMPLE COLLECTION INFORMATION
Client Omega Protein Inc.	Location Omego Wastern
Contact Person Lycli Jet	Date/Time /11- 1-4- (100) 7:10
Mailing Address P.O. Box 1175	Graby Composite
Reedvible 2 VA 22539-0175	Gollected By Oxcuration
Telephone No	Gollected For WIDES
	(NPDES Monitoring etc.)
LABORATORYINFORMATION	Sample Type
	Water (first draw tap, distribution, source water, well)
Sample ID# 60-70 / 108	Wastewater (influent, effluent, soil, sludge)
Method of Shipment	NOTE: If an acid preservative is added to sample, field
No. of containers received	pH must be recorded to show pH is 2 or less.
Received by	Date/Time /02401/00/Ar REQUESTED ANALYSES:
Relinquished by	Date/Time/0-24-10:00
Received by A. Elder	Date/Time /1/24 /11 /4
Relinquished by	Date/Time / 0.7c/ 11:1/10
Received by W. Z. Wattan J.	Date/Time/0.2500/ 0800
Relinquished by	Date/Time /
Released from lab by	Date/Time/
Sample Deviations: Insufficient Data Insufficient Quan	tity. Improper Container
Leaked/Broken in transit Exceeds holding time not	preserved other
Person Notified	

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(540) 898-2115

CHAIN	OF CUSTODY RECORD
Note:	OT CODICATION TO THE CORD
Must be filled out in ink	
PWS ID#	SAMPLE COLLECTION INFORMATION:
Client Omega Protein In-	Location amega Prolein
Contact Person Lyoll Von	Date/Time 10-23- 00
Mailing Address P.O. Control Control	Graby Composite 1/25
The state of the s	Collected By A Hall
Telephone No. (804) 453-423	Colleged For KIPDES
	(NPDES Monitoring etc.)
LABORATORY INFORMATION	Sample Type
	Water(first draw tap, distribution, source water, well)
Sample ID# 00 904 - 126	Wastewater (influent, effluent, soil, sludge)
Method of Shipment  No. of containers received	NOTE: If an acid preservative is added to sample, field
No. of containers received	pH must be recorded to show pH is 2 or less.
Received by	Date/Time 1023-01 4.30, REQUESTED ANALYSES:
Relinquished by	Date/Time /6-23-0/9:36
Received by K. Engleston St.	Date/Time /1/23/1/1:Ve
Relinquished by Received by W. Z. Z. W. Z. Z. W. Z. Z. W. Z.	Date/Time /0.2331/ 11:4/
Relinquished by	Date/Time/ <i>0-24-06/ 0800</i> Date/Time
Released from lab by	Date/Time /
and the second s	
	Programme and the second secon
Sample Deviations: _Insufficient Data _Insufficient Qu	Managaran and the state of the
Leaked/Broken in transitExceeds holding timen Person Notified	r preserved 3. Other
Person Nouned - Area person and a second sec	

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CHAII	NOF CUSTODY RECORD
Note: Must be filled out in fink	
PWS ID#	SAMPLE COLLECTION INFORMATION
Client Company of the	Location Omega Prolein
Contact Person Is elit Vett	Date/Time 10- 20- 110 2:55
Mailing Address P.O. Bor 1975	Graby Composito 1. 26
Receivable Ave 2239-UNS	A CONTRACTOR OF THE PROPERTY O
Telephone No. 804-453-423	Collected For DIP DES
	(NPDES Monitoring etc.)
LABORATORYINFORMATION	1. 自然の 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
	Water (birst) draw tap, distribution, source water, well)
Sample ID# 00-90-7	
Method of Shipment	ALL CONTROL OF THE PROPERTY OF
No. of containers received	pH must be recorded to show pH is 2 or less.
Received by	Date/Time / 9:34 9:34 REQUESTED ANALYSES:
Relinquished by	Date/Time /0-20.1 9: 30
Received by Associated Relinquished by Associated Relinquished by Associated Relinquished by Associated Relinquished By Associated Received By Associated Relinquished By Associated Received By Associated Received By Associated Relinquished By Associated Received By Associated Relinquished By Associated Received By Associated Received By Associated Relinquished By Associated Received By Associated Relinquished By Associated Received By Associated Received By Associated Received By Associated Received By Associated By By Associated By By Associated By	Date/Time 11/20/11/26
Received by Received by	Date/Time 7/2/1/25
Relinquished by	Date/Time / <i>0-2 -40  0 0</i>
Released from lab by	Date/Time /
Sample Deviations:Insufficient DataInsufficient C	Character 1972 Control of the Contro
Leaked/Broken in transityExceeds holding time	not preserved other
Person Notified	

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<u>CHAIN</u>	NOF CUSTODY RECORD
Note: Must be filled out in inks	
PWS ID#	SAMPLE COLLECTION INFORMATION
Client Company Protection of Company Company	Location Omena Protein
Contact Person Lyell Ces	Date/Time 10-19 00 - 2:35
Mailing Address P.O. Box 1175	Grab/Composite
Designation (1) (2000)	Collected By SP Hall
Telephone No SERVE - V	Collected For
	(NPDES Monitoring etc.)
LABORATORYINFORMATION	Sample Type 1
Sample ID# UU28461 -> 9100	Wate (first draw tap, distribution, source water, well)
Method of Shipment	
No. of containers received	pH must be recorded to show pH is 2 or less.
	The property of the second
Received by Relinquished by	Date/Time 10:19=1944
Received by	Date/Time 10:19:40 1 29 Date/Time 10:19:40 1
Relinquished by	Date/Time 19-19-19-19-19-19-19-19-19-19-19-19-19-1
Received by W. 2. White	Date/Time/0-200/ 0808
Relinquished by	Date/Time /
Released from lab by	Date/Time/
Sample Deviations: _Insufficient Data _Insufficient Q	pantity Improper Container
Leaked/Broken in transitExceeds holding time said	not preserved to other the same
Person Notified	The state of the s

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GEWING	(540) 898-2115 OF CUSTODY RECORD
Note: Must be filled out in ink	AF-COSHODT RECORD
PWS ID#	SAMPLE COLLECTION INFORMATION
Client Ouege Protesting Str.	Location amega Protein
Contact Person Typical	Date/Time 10-18-110 - 1:35
Mailing Address P.O. 10. 17-	Grab//Composite> \; > //
2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2	Collected By
Telephone No. (80(5/25) 2741)	Colleged For IV PO ES
	(NPDES Monitoring etc.)
SE LABORATORY INFORMATION	SampleType
	Walst (first draw tap, distribution, source water, well)
Sample ID	(Wis vater (influent effluent, soil, sludge)
Method of Shipment	NOTE at an acid preservative is added to sample, field
No. of containers received	pH must be recorded to show pH is 2 or less.
	THE RESERVE OF THE PARTY OF THE
Received by	Date/Time 10 14 9 364, REQUESTED ANALYSES:
Relinquished by	Date/aTime 10-19-64 9:33
Received by War Assault	Date/Time AVIS/WS4
Relinquished by See Land	Date/Time 6/5-/ 10:5/0
Received by W. Z. W. L.	Date/Time/8-19-00 0800
Relinquished by	Date/Time/
Released from lab by	Date/Time:/

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CHAIN	KÖFICUSTODY RECORD
lote: fust be filled out in fink.	
WS ID#	SAMPLE COLLECTION INFORMATION
lient Omega Protein Lucy Company	Location OMUGA FIFTOM
ontact Person Ally Call De la Calle	Date/Time /0-//- 110 - 11/0
failing Address (20)	Grab/Composite) 1.22
A CONTRACT OF THE PROPERTY OF	Collected By
elephone No. (801)Y-> = 240	Collected For
A CARLON CONTRACTOR	(NPDES Monitoring etc.)
LABORATORYINFORMATION	Sample Type NPOES
	Water (first draw tap, distribution, source water, well)
ample ID# 00-882-> 985	Maste Water (influent, effluent) soil, sludge)
fethod of Shipment	NOTE HE macid preservative is added to sample, field
lo. of containers received	pH must be recorded to show pH is 2 or less.
o. of contamers received	pri inuscoe recorded to snow pri is 2 or less.
1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	
eceived by	Date/Time 10-17 9'374 REQUESTED ANALYSES:
elinquished by	Date/Time/6-17 /9:35
eceived by	Date/Time 10/7/1/22
elinquished by	Date/Time: 10-17 / 11-21
eceived by Our Which the	Date/Time/0-18-00/ 0800
elinquished by	Date/Time
eleased from lab by	Date/Time /
ample Deviations:Insufficient DataInsufficient Q	iantity 1mproper Container*
Leaked/Broken in transit Exceeds holding time	

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Note: Must be filled out in inits	OF CUSTODY RECORD
WS ID#	SAMPLE COLLECTION INFORMATION
lient Coege Protetti unc	Location Omega Redees
Contact Person April 1998	Date/Time 10-15-
Mailing Address Live Box 176	Srab/Composite 1000000000000000000000000000000000000
AND	Colléctéd By XX No. 9
elephone No.	Collected For NPDEC
	(NPDES Monitoring etc.) Sample Type
LABORATORAINEORMATION	
	Water (first draw tap, distribution, source water, well) Wastewater (influent, effluent, soil, sludge)
Sample ID#	NOTE: It an acid preservative is added to sample, field
Method of Shipment No of containers received:	pH must be recorded to show pH is 2 or less.
NO-FOI CONTAINERS TECES VEG.	
$\mathbf{c} : \mathbf{c} \cdot \mathbf{c} \cdot \mathbf{c}$	Date/Time Date/Time REQUESTED ANALYSES:
Received by Relinquished by	Date/Time /6-/5/2:30 pm
Received by	Date/Time: 10-1
Relinquished by	Date/Time /
Received by	Date/Time /
Relinquished by	Date/Time
Released from lab by	Date/Time
Sample Deviations: Insufficient Data Insufficient C	

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CENINIO	OF CUSTODY RECORD
Note: Must be filled out in inte	DI COSTODI RECORD
PWS ID#	SAMPLE COLLECTION INFORMATION
Client	Procesión Comega Prolein
Contact Person	Date/Time 2-10-13-00-13-3
Mailing Address MP40 100 10/5	Grab Composite
The second secon	Collected By
Telephone No. 804-453-4211	Collected For NPDES
	(NPDES Monitoring etc.)
LABORATORYINFORMATION	Sample Type
	Water (first draw tap, distribution, source water, well)
Sample ID#************************************	(Wastewater (influent, effluent, soil, sludge)
Method of Shipment	NOTE: If an acid preservative is added to sample, field
No. of containers received	pH must be recorded to show pH is 2 or less.
Received by Received by	Date/Time 10-13   9:5  REQUESTED AN
Relinquished by	Date/Time 10-13 19:50
Received by Lands	Date/Time 11/24
Relinquished by	Date/Time 10-12/10/21
Received by	Date/Time kill /1140
Dalin	State Street Street Street

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CHAIN OF CUSTODY RECORD

Must be filled out in ink	
PWS ID#	SAMPLE COLLECTION AND A SAMPLE
Client Omega Protein Inc.	SAMPLE COLLECTION INFORMATION Location & Omega Ponley
Contact Person Lyell Jette	Date/Time 10-10- 7:25
Mailing Address P.O. Box 175	Grab/Gomposite
Keedville VI 2233 = 07/5	Collected By Rull
Telephone No. 804-453-4211	Collected For IVPDES
	(NPDES Monitoring etc.)
LABORATORYINFORMATION	Sample Type
	Water (first draw tap, distribution, source water, well)
Sample ID#	Waste water (influent) effluent, soil, sludge)
Method of Shipments	NOTE: If an acid preservative is added to sample, field
No. of containers received	pH must be recorded to show pH is 2 or less.
Received by	Date/shime 10-70-19-462. REQUESTED ANALYSES: 1: 0.00
Relinquished by	Date/:Time 10:16:01/9:1/55
Received by	Date/Lime 19/10/10/105-7
Relinquished by	Date Lyime 10 10 11 11 18 18 18 18 18 18 18 18 18 18 18
Received by W. W. A. G. W.	Date/Time/0-11-05/0800
Relinquished by	Date/Time
Released from lab by	Date/Time /
Sample Deviations: _Insufficient Data @Insufficient Quan	itty Minproper Container 18.3
Leaked/Broken in transit Exceeds holding time into	preserved other
Person Notified	

O Box 781 / 150-C Olde Greenwich Drive Fredericksburg, Virginia 22404 (540) 898-2115

Note: CHAIN	OF:CUSTODY RECORD
Must be filled out in link	
PWS ID#	SAMPLE COLLECTION INFORMATION
Client Company Comment of the Commen	Location omega Protocia
Contact Person Lye 11 Jose	Date/Time 18-6-00- 2:110
Mailing Address P.O. Box 175	Grab Composite
Reed Vallet VI 22559=019	Collected By Golde
relephone No. 804-453-481	Golledfed For IVP DES
	(NPDES Monitoring etc.)
LABORATORYINFORMATION	Sample Type
	Water (tirst draw tap, distribution, source water, well)
ample ID# DOENUZ 30.2	Was ewiter (influent, effluent, soil, sludge)
Method of Shipment	NOTE: (an acid preservative is added to sample, field
Vo. of containers received	pH mussbe recorded to show pH is 2 or less.
Carried March Control of Control	A STATE OF THE PROPERTY OF THE
eccived by	Date/Time 1/0 (/ 9:4/4 REQUESTED ANALYSES:
elinguished by s	Date/Time 70-6 / 9-40 REQUESTED ANALYSES:
eceived by That State St	Date/Time 4-6/1164 <sup>2</sup>
delinquished by	Date/Time 1/6/ / ////25
eceived by	Date/Time /0-7-04 0925
Relinguished by	Date/Time /
Released from lab by	Date/Time /
THE PROPERTY OF	
sample Deviations:Insufficient DataInsufficient Quan	MEN MAN AT A SANCTON AND A SANCTON A SANCTON AND A SANCTON
Leaked/Broken in transitExceeds holding timenot	preserved other
Dorcon Notified State Commission	ARMONIMOND TO TO THE TAKE OF THE CONTROL OF THE CON

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	(540) 898-2115
CHAIN	<u>OECUSTODY RECORD</u>
Note: Must be filled out in inks	
	SAMPLE COLLECTION INFORMATION
PWS ID#	SAMPLE COLLECTION INFORMATION  Location Product
A CONTROL OF THE PROPERTY OF THE PARTY OF TH	Date/stime 10-35-00 - 7-25
Mailing Address	Grab/Composite Colleged By
Telephone No.	Collected By Colle
	(NPDES Monitoring etc.)
LABORATORYINFORMATION	Sample Type Water (lirst draw tap, distribution; source water, well)
SampletiD# 000000000000000000000000000000000000	Wasiewater (influent, effluent) soil, sludge)
Method of Shipment	NOTE-16 an acid preservative is added to sample, field
No. of containers received	pH must be recorded to show pH is 2 or less.
Received by it	Date/Time: 10ミノタル REQUESTED ANALYSES: ***********************************
Relinquished by	Date/Time /0-5-/ 9:08
Received by School Relinquished by	Date/Time 10/5 ///:06
Received by W. 2 William	Date/Time/0-6-00/0800
Relinquished by Released from lab by	Date/Time /
Released from IaD by	Date / I little / /

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	OF CUCTODY RECORD
Note: Must be filled out in this.	<u>OF CUSTODY RECORD</u>
PWSID#	SAMPLE COLLECTION INFORMATION Location Amega Prestage
Contact Persons Lye 11 Joes Mailing Address 40 Bb 217/5	Date/Time 10 -4 80 - 2 30 Grab/Composite 4126
Telephone No. 804-453-4211	Collected By  Collected For  NPDES
LABORATORY INFORMATION	(NPDES Monitoring etc.)  Sample Type  Water, Girst draw tap, distribution, source water, well)
Sample ID# Method of Shipment	NOTE: If an acid preservative is added to sample, field
No. of containers received  Received by	pH must be recorded to show pH is 2 or less.  PH Date/Time 194195 REQUESTED ANALYSES:
Received by	Date/Time 10-11-19:30 Date/Time 10/49 11:09
Received by Received by	Date/Time 104 / 11/108 Date/Time/04-01/0800
Relinquished by Released from lab by	Date/Time / / Date/Time / / / / / / / / / / / / / / / / / / /

Source: DO Meter Calibration Method Code: 5210-B

In 24° 8.4

100.3

Date

. In: 10-27-00 Out:

Time

1330

Analyst

Sample	Bottle Nu	mber for:	Conc.			Diss	olved Ox	ygen					
Number	IDO ,	5 Days	Percent	Initial:		5 Days:		18)	Depletion		Conc.	5 Day	
	X11	1001		m l	ppm	mi	ppm	Total	Less Blank	Percent	Factor		Sample
TU	(**)	2	100	8.0						service.	120		
Temp a	0	2	100			7.7		.3	1000	·	3 4		(8)
e a factoria. Se deservición	F			***			1.1	1.57	The state of the s	My J. C.	1 × 1		
20-924	11	# 8	100	9.0		ř			$\mathbb{V} \wedge \mathbb{V} \cap \Sigma$	tighter.	*!		
Tong 2	0	34	100	15	9.0	5.5		3.5		39	1	3.5	13-3
71	.9	36	50		8.5	6.9		1.6	(M)	19	2	3.2	
edited with		96	25	*	8.3	7.5		0.8		10	4	3.2	
20925	22		100	9.0	182 183			1 12 1 A	4, 1	10.1			7
Tem 2	2 10 1	99	100		9.0	5.3	1 5 %	3.7	1.84	41	1	3.7	13.
pH 8	0	197	50		8.5	4.6	1 1	1.9	e 3	22	2	38	
	500F	198	125		8.3	7.2		1:1	h. 4	13	4	404	1
50-926	31		100	9.0		1.00					, (en		1
Temp à	20	208	100		9.0	51	1 2 2 H	3.9		43	2.7	3.9	14.1
pH 7	.9	229	50	35 Y	8.5	6.4	Esta de	2.1		25	2	4.2	<u>                                     </u>
Marie.	1 to 1	230	25		8.3	7.3	Fig. 1	1.0	hg 1, 21, 21,	12	1.4	4.0	T 0
30-927	33		1100	950	7.3		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		lφ ş		ie,		
Temp :	2,00	244			7.3	0		1-131	2,4%	-3, "	x = 1 s		-
161	7.9	308			7.7	2.1	,20,	5.6		73	2	11.2	-/1/.
L	(+)	310		27	7.8	4.8	27,10	3.0		38	4	12.	
		(+)		1	1			1 1 2 2				1	

Source: ( Wer Puter

DO Meter Calibration J Method Code: 5210-B

Date

In: 10.26-170 Out:

10-31-00

Time

1015

1075

In 23°(85100.1.
Out 24°(84100.0

Analyst

	Bottle Nu			72		Dis	solved Ox	ygen	2000	Wall of a	*.		
Number	IDO	5 Days	Percent	Initial:				ार्थन अस्तर इ.स.च्या	Depletion	ppm	Conc.	5 Day	BOD
	1			m l	ppm	m l			Less Blank			(1	Sample
TN	40		100	88			\$50 BUT	A		<b>经验</b> 的	800	**	
Tenin	7000	40	:100	- N		8,5		0.3	Section 1	11.50		(3	
	- a	# E		W. S. S.	127 8	K( #(	11 11 15	10° 10° 10° 10° 10° 10° 10° 10° 10° 10°	- gin	1/2			
717-909	48		י מטו	63		* - 5	· 12",			L.	/		
Temo	20°C	52	50		7.6	40		36	1	417%	a (	7.2	7
PH	72	57	<b>25</b>	, , ,	8.2	600		1.6	AN AND	19%	4	6.4	
<b>.</b>	141 St	67	15	5.0	8.4	75	がには	0.9	hyd-bj	100%	1047	10 D	
	3	86	10		8.4	80.	lay sign	O.Co.	- 24 '-	17%	10	100	
20.5	9 (g. K)	*** • A.		A	A) =	10 12 15		(r), h		. 4 4	Part of the		as is
4 5 TH 1	,20 ±50	t.	14 (15)	u <sup>2</sup>						11.7	49 F 60		5 × x
1136 15. 16. 1	¥ (*)		* ·	ě		# 79 m			Jr. 860		715		
្រ ដឹងជន្	(+) **		<sup>24</sup> .	- (*	á	5 15° 40	The setting				Š	¥	
			).		*	# " " ×	*.1.	1. T. T.				:0 :	
		* *	. 8	*	×	r'		1 May 1.9	Seven S				
8	· 18			4			30.00	1. Tr	A MARINE	Nation of the last	ī.		
* × *		1 2 2 2		ž.	12	7°5 *	n. 95ps		16 mg 175°	* 4.	1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x 1 x	19	1
4 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	15. 0			AL P			1.30		1		1 4	E 47	e
t sign	No.				15°	gas n.e.			-35 K	1. Y .	1.,		
			*			ja ten	(m) = 42		55 P T	2			
	8 .	1						T.				, , , , , , , , , , , , , , , , , , , ,	

Source: On Action Method Code: 5210-B

O Meter Calibration Method Code: 5210-1

In 24484444 A

Out 2548.3498

Date

**Analyst** 

10-25-00 Out:

10-70-0

Time

1035

1045

Sample Bottle Number for: Conc. **Dissolved Oxygen** 5 Days: Depletion, ppm IDO 5 Days | Percent Initial: Conc. 5 Day BOD Number ppm Sample m1 m i Total Less Blank Percent Factor ppm Th.! 100 9.3 0.2 HTTO 208 9.0 (D)(f) 100 8.8 213 3(01) 510 50 7.0 0.9 15 17:107.7 6.67 Thinks 0.6

Source : () reach Pictein

DO Meter Calibration Method Code: 5210-B

In: 10-24-00 Out:

10-29-00

In 24°C 8.4 9.9.9

Date Time 111D 55C

OnG!

Sample	Bottle Nu	mber for:	Conc.	(a.)		Diss	olved Ox	Oxygen  Depletion, ppm   Conc.   5 Day					
Number	IDO	5 Days	Percent	Initial:	7,81,81	5 Days:	24 1180	5,000	Depletion	ppm	Conc.	5 Day	BOD
	0.00			m l	ppm	m l		Total **	Less Blank	Percent	Factor		Sample
TN	95	the Me	100	8.4	# 2/			tingar i	40.00	100	v(3, <sup>1</sup> ,		12
Trono	20%	95	100	185 N	(A	8.2	17.5	0.2	\$4.77	1,34,74			В "
1	27 St						lia <sub>g</sub> se II	100 m Jr	1 m 9 m 1 m		P = 10		
20404	96	27	100	(o.D		323	412 101	1. T	. (4) - 0, 45-54		Fg. 1		
temo	200	97	50		7a	5.5	· · · · · · · · · · · · · · · · · · ·	1.7		24%	12/	3.4/	
DH		99	25		78	73		0.60	3	8/	4	34	
-	· ***	101	15		7.9	70		0.3	44 7 F. J.	4/	667	30	
*14 18 18 18 18 18 18 18 18 18 18 18 18 18	Agente di Si t	103	10		82	79		03	1,000	4/	10	30	
(4) (3): (2): (2)		1 - A	n × č		1 12 1 12 1 12 1 12		or and	8.	5 - 7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1				
Se e n	7 - 1		X IC X	*	ai			Alan, d	. ·	15 J.	ere e		75
		1, 170	3	3.05		* * *	74.4	11.15%	1000	Karana da	. i & i · .		
	15	100	i e	В	13 14		V + 95	1.00	1900 A.	THE		4-1-	100
	Jan 1	200	* **						talk of the f		***		
a sa #	hs =						7 %	. Aj.,.		: 8-1.5	. ·		
	2.0			,	s	337	, and		·	3.30	1.0	e" .	
(a) ,	E4		3.0			5.9.9	i.	- 4.6		Terminal Terminal	* * * * * * * * * * * * * * * * * * *		
9 <b>9</b> 00	k.		×			×	113.	ee : 📆			* ***		
	×	0	N N			8	5.4			(a) 20 (a) 20 (b) 20 (c) 20 (c		ě	**
4						He te	ii.	· Side.	g for Uter		, i e		18
89			103										

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# Laboratory -5 Day BOD Benchsheet

Source:	Oneca- Protein			3
DO Meter Calibration	Method Code: 5210-B	Date	n: /0- <u>2/-00</u> Out:	10-26-00
In 22° 8.7	100	Time "	1030	1015
Out 579, 8,5	100,1	Analyst	well	55C

Sample	Bottle Nu	mber for:	Conc.				solved Ox	ygen			loops   E Doy DOD			
Number	IDO	5 Days	Percent	Initial:		5 Days:			Depletion	ppm	Conc.	5 Day		
				m l	ppm	ml	ppm	Total	Less Blank	Percent	Factor		Sample	
TN			100	8.2										
Temp	20	38	100	-		8,2		0						
08-90-	-62		100	5.6					<u></u>		*			
1ems.	Ro	72	50		6.9	0		_		_	2			
PH	7.7	74	25		8.34	0					4			
/		177	15		7.8	i.l		10.7		86%	4-67	44.7	(69.ã	1
		93	10		7.9	3.0		49	× "-	102%	10	49		4
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Source: ( ) Para Property

 DO Meter Calibration
 Method Code: 5210-B
 Date
 In: 10-20-00 Out: 10-25-00

 In 33°C85.00.1
 Time
 1030
 1035

 Out 34°84 95.3
 Analyst
 55C
 55C

ſ	Sample	Bottle Nu	mber for:	Conc.	Dissolved Oxygen									•
1	Number	IDO	5 Days	Percent	Initial:		5 Days:			Depletion		Conc.	5 Day	BOD
1	5 30	#	18.40		m I	ppm	m I	ppm	Total	Less Blank	Percent	Factor		Sample
	TN	36		100	8:1	-, -		Y 19	318					(1) Y
	Temp	20%	36	100			8.1	8	0	<b>₹</b>	4 W 4 P.	55(4)		
.	යු පැටි	1(4)			192		- "			÷	1974 P. 198	39. 3		
ı	n.89			100	49	- Trans		1.5	* * * * *				W.	
-	1000	206	40	50		6.5	1.9		46		711.	a	9,21	9.2
	at	7.3	48	25		7.3	5.0		23	,	32/	4	9.2	-
	1-1		52	15		7.10	(5.4	2)	12	7 41		6.67	80	ž.
			67	ID		7.8	69	- 5	0.9-		12%	1-0.	9.0	
						(			9 98 "	, X				
	Se and the			5:				16,9		"Takai	4 Kg			
	8.										50 1 00 2 000	5, .		
	25% 35%	34.1						2 25		5 ° 2		. 100	- 4	
000	7. " 3.	JA .	¥ .					8 B				- 1/4 - 1/4		70.87
			15 W							1		V-		- X
	1 , 2	27.9		1 1	7/1			37		- 1 2 70 20	W	*18 <sup>1</sup> 1		
	*				•			1 /2 Fe		1.	. M.C.			
(0)				· · · · · ·	((a)	E)	1.10	, a	· · · · · · · · · · · · · · · · · · ·	37	100			
						1X 1%			P.	2 E 8	38 387 NS	Pro.		
				1					100 N		. 3	185		
	e								1 2 w	3.				

Source: Overan Prodein

DO Meter Calibration Method Code: 5210-B

Date In: 10

10-19-00 Out:

10-74-00

Time

10025

((10

In 77485994 Out 7448494

Analyst

<u>S</u>55

Sample	Bottle Nu	mber for:	Conc.			Diss	solved Ox	ygen					
Number	IDO	5 Days	Percent	Initial:		5 Days:	1		Depletion		Conc.	5 Day	BOD
				ml	ppm	m I	ppm	Total	Less Blank	Percent	Factor		Sample
TN	2		100	8.5									
Teap	DOPC.	2	100			8.5							
.15						,:			9.	5			Š.
100-889	3		100	8.2									
TEMA	204	П	50		8.5	3.7		4.8		56/6	1 )	9.6	9.2)
pH	7.0	31	25		8.5	6.3		2.2		26%		8.8	
P		33	15		8.5	7.0		1.5	-	18%	6.67	10.0	r
		34	10		8.5	7.7		0.8		9%	10	80	æ
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		1											
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			T.					1					L

Source : One Diotein

DO Meter Calibration Method Code: 5210-B

Date in: 1018-7 Out:

10-72-60

In 24684100.3
Out 23685 99.7

Time ICAS

0945

Sample	Bottle Nu	mber for:	r for: Conc. Dissolved Oxygen														
Number	- IDO	5 Days	Percent	Initial:		5 Days:	3 8.0	II S	Depletion	ppm	Conc.	5 Day					
		(+)		m l'	ppm	mı	ppm	Total	Less Blank	Percent	Factor		Sample				
TN	308	3	(17)	85				N A ser	a La Teath		.41						
Tenio	SUC	308	100	9.5		82		p.3	38 A	*.25							
	, F	¥ 49	1	4		8 6	, ** *	A(4) A	4 1 20	7 A .							
(2) 882	310' -		100	0.5	100	ŵ.		, W	1 mm 1	141	6) s.X						
Fano	200	313	50		4.5	0	a 1º	* *		5 <u>9</u> 2 2 3	2						
OH	7.5	316	25		65	0			5. 4. 14.	E 2 1	4	_					
N.	1.	328	15		7.3	24		4.9		107%	6657	32.71	32,9				
**	E. 2	336	10	i nje	7.7	44	74 -	3.3		431	160	33.D					
* ,		gt a	24 27 E	T T	8				with the	1. 7. 7.							
	a: <sup>88</sup> • *€	Sec. 3	See a	2	18.30	16	, st. 3 %	**************************************		1:11.							
	to the se		36	5 4 3 =	i,∗' i	30,000		"Maja	20	en et e	2.2.9	100 4					
V*	4.5				कृषि च	* *					1						
	73								11.26		1600						
200	<b>x</b> A	1.	\$400 1	39		e syn	1,37		最高數數	31.1043	e 10.						
1.15.4		100			ē 8,4%	* 5,50	264 2 7 7 A		12.5%		는 보다 보						
. 12 161 E			19.5	*, \$	2. 2. 2.	, a	. · · · · · · · · · · · · · · · · · · ·	in Si		14° J.::							
, V, 0	(3)						ា នា វិទា			e Paris	(8)						
	-	H60   E		35	1 at 1	· * *	3 10	100	y, h	2.0							
	8		94		-		3.0		100	3 (4.0 la) s	. E.						
						2 ™		. 3	10 p	tich, in			rama, see				

 Source : (Mem Hi) Hi)
 Method Code: 5210-B
 Date In: 10-15-60 Out: 10-20-60

 In 78(8549.4)
 Time 1650

In 78(8549.6 Time 1650
Out 38(8549.6 Analyst 556

٢	Sample	Bottle Nu	mber for:	Conc.			Diss	olved Ox	ygen .					
-	Number	IDO	5 Days	Percent	Initial:		5 Days:			Depletion,		Conc.	5 Day	
L					ml	ppm	m I	ppm	Total	Less Blank	Percent	Factor		Sample
	TN	(na		100	7.1									
	Tarip	20°C	62	100	-		7.0		0.1					
	<b>+</b>								-					
- [	00-575	104		100	7.5							<u> </u>		
	Tema	ao°C	79	50		73	0					2	7	D
	-pH	7.4	74	25		72	33		3.9		54%	4	15.la	/
	P		77	15		7.1	54		1.7		24%	6.67	11.3	
			93	10		7.1	5.10		1.5-		21/	10-	75.0	
	•								593					
	No-9810	99-1		100	8.3									
/_	Temp	20°C	95	50		7.7	0					42		<b>1</b> ,
	n#		90	25		7.4	3.3	ļ	4.1		55%	12L4(	16.4	/
	r		97	15		7.3	5.6		17		33%		11:3	
			99	10		7.3	63		10-	4-	-14/200		107	
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						<u> </u>				- akura		ļ		·
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						l .								

Source:

In 28685 99.3 Method Code: 5210-B

Date Time

10-14-00 Out:

1200

z	Out	23785	CC1.4
	4° ,4°	s in the same	•

Lat Apar	) 3, K & S		* * * *		×	98	2 × 4	* * * * * *	Analyst	er i i i i	SSC	- 5	SSC
Sample Number	Bottle Nu IDO		Conc. Percent	Initial: ml	ppm	5 Days:	olved Ox	k that is	Depletion Less Blank	ppm Percent	Conc. Factor	5 Day	BOD Sample
TN	308		100	7.4	7)				The state of	The grade	, *o, .		· ·
Temp	20°C	206	100			70	72 . T.	0.4	. · · · · .				
٢.	590. A	2		e i	8 . 5		*(1 = 2)		2 H.A.	dis A.A.	1.0		
00-876	213	9	100	7.4	÷	5			. (a. 4.	1 30	· · ·		
Temp	30℃	220	50		74	0:		· <del>- '</del> ' '	1,3		2		<u> </u>
pH	7.3	223	as		7.4	4.7		3.2	1111	43/		12.8	<u> </u>
	31	228	15		7.4	60	(A) 19	1.4	in the same	-191.		9.3	
in the second	3	229	10		7.4	6.4	e e	10	11/20	-14/	-10-	10:0	
n stati	2,000	120 S		- v <sub>E</sub> .	i i	1200			de de la companya de			<u> </u>	
		J. 183	1 1 1 1	26 7		*86	* a   8	731.E	18,17(4)	21.		<u> </u>	8 8
			<u>                                     </u>		*	e straj					3 TH	1.	
# 17s+/	*		-			, sv	, *		3.734	9.14. T			. 8
	*					. par		1 2 3	i v	4,7		ļ	
ein, si		330					84 .	, \$100h	-2.5 1 si	**	1		
148	1.2						1	4'-1 ,*1	e di essia	144			<u> </u>
28 Sg 20							142 O g		\$ 7 Wes	1			<b> </b>
36 [	3					<u> </u>	19	. 200		1 115 1	(तर्क		
				-	8		A Tarre			1.	1.5	ļ	
	^ #												
							10						

Source: On record Figure ) DO Meter Calibration Method Code: 5210-B 1<u>0-11-1.0</u> Out: Date In: 11-11-120 In 23°C 85°99.2 Out 23°C 85°99.5 Time

Analyst

S	ample	Bottle Nu	mber for:	Conc.			Diss	olved Oxy	ygen					
	umber	IDO	5 Days	Percent	Initial:		5 Days:			Depletion,		Conc.	5 Day	
L	16				m l	ppm	m l	ppm	Total	Less Blank	Percent	Factor		Sample
7	N	52		100	8.3									
	1777	30°C	รจ	100			8.3	3						
-	0801	234		(CC)	3.5		<u> </u>	-						
		7,90	360	15		76	-0				_	10.67	_	
	14	7,5	1138	10		7.8	D					10		
	1		240	5		8.1	1.3		6.8		84%		136	(119)
			48	333		8.1	4.7		3.4		42%	30	102	
-														
-												10		
-			-		ļ		-							
+			-								4			
									141	8				
									ļ.,.				100	
					<u> </u>		<b> </b>		*			<b> </b>		
		1												

Source:	Ompag. Postein			
DO Meter Calibration	Method Code: 5210-B	Date In	: 10-7-0 @ut:	10-12-00
In 22°8.7 99.	6	Time	1030	1000
Out 230 8.5 99.	$\hat{m{q}}$	Analyst	wew	wu

Sample	Bottle Nu	mber for:	Conc.			Diss	olved 0	xygen		-			
Number			Percent	Initial:	¥1	5 Days:	0		Depletion	ppm	Conc.	5 Day	BOD
		1		m l	ppm	m l	ppm	Total	Less Blank	Percent	Factor		Sample
TN			100	8.1					(4				
Tan	20	239	100	¥0		7.9		. 2_		æ			
V													
30-862	313		100	5.6				0 <b>6</b> 7					1
Tema	7 0	316	50		6.9	3.8		3.1		45	ス	6.2	16.2
Teng.	2.0	320	25		7.5	6.1	F	1.4	٠,٠	19	4	5-6	
7		328	15		2.7	6.9		0.8	1	10	6.67	5.3	
		336	10		7.9	7.2		0.13		8	10	40.0	-
								3 4 4 4					
										*			
									*	51			
								5					
F.						, 41			1 24 L	*			
								×					
	-												

 Source :
 Onega - Protein

 DO Meter Calibration
 Method Code: 5210-B
 Date In: 19-6-00 Out: 10-11-00 In 1530 Immediately analyst

 Out 32085 979
 Analyst
 With 550

Sample	Bottle Nu	mber for:	Conc.	i i		Diss	olved Ox	ygen	0.0		7		
Number	IDO	5 Days	Percent	Initial:	1	5 Days:			Depletion		Conc.	5 Day	BOD
6/14 pg			. 11	m1	ppm	m I	ppm	Total	Less Blank		Factor		Sample
TW			100	8.3					No section	Page 4	1		
	26	99	100	7 × ×		(92 3	81	5" ¥ 2	7.00	. le 20	.,		
	*			× .	:(#): 36	7	* . *3		** ***********************************	100 E	. v		
20-85	229		100	4.3									
Tenn 3	0	302	50	¥		7.5	43	X	32	43%	a	6.4	
04 3	700	303	25			7.8	65	2 Ng	13-	17/	L.f	5.21	64
100	;( D	306	15		*1	8.0	7.2		0.8-	10%	667	53.	
	•	310	10		g/ān	8.1	7.5	i granderija Granderija	00	77	10-	to-D-	
2007			3.	Type a				, King	at the		e e e e e e e e e e e e e e e e e e e		
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	* S	2 2	\$5 (BE)			T T	2 2 3	J# . 6					
1 854 F. 240 - 14			- X	100	*	* *		* * * * * * * * * * * * * * * * * * *	1.	1	# 77 # 10	0.00	
F . M.	7 1 1 X			š 4		*	20 A.		w., 59%-	with an			
re <sup>m</sup> (*)	R STATE	\$P.	n ×				Ys.			1 1 4	* * .	× ×	
	1000	(d) at our				(2) V	(e) .			a tent	100		
- F1	* 181 G	E (#1		8						· 10 .	a z		
2.3	(B) 24	20 e/ _050	N B S	9	9						m. v		
**								*2* 1130 ***	·				
							1-	N N .0					

Source:	Omega-Protein				
DO Meter Calibration	Method Code: 5210-B	Date	ln :	10-5-00 Out:	10-10-00
In 23° 8.5	99.7	Time		1400	1340
Out 22" 8.7	100.1	Analyst		wind	WHY

5 Day BOD  Sample
,.4 (6.4
,.4 /6.4
,.4/6.4
.4/6.4
.4/6.4
.0
5.3
5.0

	100		410	L.J. F.		
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	-1-B-14	Site Co	ollectess	Ked	Jander	Other
00 017	alla Enda	10 Stal -	#E -			\ \
00.347	JUKE TYPURY	ick Station	142,100	10.4-00	10-4-00(1	530) DS
00-040	^		DUHO	m''	11 12. 955	xi
00-849	11	Statie		1 -	ا <b>۱۳۰</b> کل دفرند کا شخصت	1,
00-850	Unega Prote	in Souther	10-4-0	0 (0730) 10	-5-00 (0800)	J.R.
00-871	1. 6	Cockvelling	ic "	Warner IV R	66	46
00-852	City of F3	burg Still	Et. 10-1-	00(24HC)	10-5-00/1	051\ State
00-853	1 11	1 .,	12.3	00.	11	ic
00-854	41	7.	10-3	-00	L.	64
00-855	11	2.7			ν,	<i>د</i>
08-856	(1	-STP.I	nt. 16-4.	-00	6.	÷c
00-857	Cueca-Frot	Zing Sculker	n 10-5.	00(0725)	10-6-00/080	1 J. R.
50-259	/ ··	Extep. Firey				
01 859		Eulp. #000		/	ri	(9) #4
20 -342		Cockur ic		1	61	41
		Mass. STP A	- /	-00 10-	-6-00 (102x)	DC
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ar 343	7	Godereller		10 (10) -10	1.0000	31
00-864	u			-00 (0725)	10-11-00/06	NTP
		Four Winds ST	a ESE 100	11-00/05/	10-11-00/230	\ Z . h
DD-8/2/2 A	Consult s	102 Palacia	1 100	11-02 (0315)	10-11-00 (230	15 11
00-817	Cid of FH	03 Persimmon	10-11	-00 (1000) 10	1/2 1 - 11	1.3.42
00-868	017900	pung STP #	10-3	200(ZY.HC)	1042-00.00	10) STERT
_ / _	٤.		10-6	-00	· · · · · · · · · · · · · · · · · · ·	
00-869	8			-00		
00.870	٠.	/ L	10-8	.00		<i>v</i> ,
00-871	u	. F.		-00		4
00.872	<i>i</i> .	ř,		)-00 <sub>-</sub>		Ų
00-873	<i>V</i> /	»i		-00.		4
00-874	1/2/	STPIN	f. 10-11	- 20	v.	1,
90-875 E	Day Crocks L	court becove-	Klem. 10-11	1-00	19-12-00 (115	6) O.C.
	nega Protein	Schnipper 10	13-00 (07:	35)10-14-00	140) J,	R
00-877	J v	Cockrellerell	e (	<i>/</i> (,	,	1
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Read and Understood By

1			
Signed	Date	Signed	Date

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Res and Understood By

Signed

Protein Scruwser 10 23.00 (0725) 10-21-00 (0800)

(25/01 00-EG- 01 200 TOTAS)

00-907 Omega- Protein Sovubour 10-24-00 (0710) 10-25-00 (0800) J.R.

CockrellCreek

Cocksell Creek

00.905

00-906

00-908

(•) :-	Dute Time	1 de /5. a	
ID gient Site	Collected	Parlo Colo	** ***
	- Correction	vead saubrer	- Other
00-909 Duega-Protein Sa	wilhan 10.35 and		
00-909 Duega-Protein Sa	11 Cmale 11	0630) 10-26-00 (0800)	J.K.
00-911 Cameron Sutton 13510	R ale a le ia		• \
, , , , , , , , , , , , , , , , , , , ,	Elenute way	10-74-00 (0500) 10-76-00 (09)	%)CS
00-912 City of Flying STF	KTT. 10-19-00 (	24HC) 10-26-00(133	e) State
00-914	10-20-00		46
00-915 "	10-21-00		·
	10-22-00		્ . (૯
00-916	10-23-00	4 Ngaratani Hill Nasahiri 1974 - 17. 17.	4
00-917	10-24-00		le
00-918	10-25-00		<b>4</b>
00-919 " STPI	nt. 10-25-00_		4
		-26-00 (1330)10-26-00 (14	130) PC
	75	" (1340) "	ic ( )
00-923	Ball 1st lutchen		
00923 "	Modison Hall		K 11
00.924 Dinega-Rotein Shed	mucher-Fre Dischar	re 10-25-00 (1330) 1	270000
00 925	- After Disch	ace " (1340)	11
10926 " Lance	aster- Pre Dischar	je " (2000)	*c
00-927	After Discho	10 (2020)	-/1 <u>47.</u>
00-928 Your Winds Well	1#1 10-27-00	0530 10-27-00 (0900	) D.C.
00-929		9.740	4.1
00-930	43 " (	0750) 4	Ćų.
00-931	#4 "	0750) 4	40
00-932	45 " (1	755)	
00-933 Das/Crooks Indian Ha	ves STPEHF, 10-25	-00 10-27-00/093	B.D
00-934 " 220 Morga	VLN. 10-29-001	1445) 10-30-00(125)	S.C. PH
00 935 High Pt. Marina 4634 laurt	louse Rd. Pump Sto. 10-	3000(1115) 10-30-00 11212	)cw
00-936 Wm. Callahar 4 Patto	NLN. 10-31-00/0	700) 10-31-00 (1350)	W.C.
00-937 Jack Payme 8004 Cou	Athouse Rd. 11-1-6	0 11-1-00/09355	?. <b>D</b>
00-938 Wilderness Resort W	e/1 #1 11-1-00/1		5.
00-939 " We		010)	¬ '
	11/ H = >	950) " "	
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50° 61	Read and Understood	By	
		*	

Date

Signed

Date

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			Dote.	Flow	pH	Temp c
00-81	3 Schrib	مجد ج	-28-00	2.434	5.59	24
See p. 54 00-81	4 Euros	tortout	1.1	9.969		
00-8	5 Codliver	1 Creek	116			
00-82	Sary		-29-60	2.839	2.31	26
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PRO

November 27, 2000

Mr. Frank Lupini Department of Environmental Quality Piedmont Regional Office 4949-A Cox Road Glen Allen, VA 23060

Dear Mr. Lupini:

Enclosed is the data that you requested. I feel that this amount of data should answer your questions. Please let me know if there is anything else that you need or any questions you may have.

Sincerely,

John

Mr. John C. Barnes, Jr.



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr. Secretary of Natural Resources PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deq.state.va.us

November 29, 2000

Dennis H. Treacy Director

Gerard Seeley, Jr.

Re Wood Based 2000 o

Mr. John Barnes, Environmental Manager Omega Protein Incorporated P.O. Box 175 Reedville, VA 22539

#### **Privileged Settlement Communication**

RE:

Adjusted Proposed Consent Order

Omega Protein Incorporated

**VPDES VA0003867** 

Dear Mr. Barnes:

Enclosed is an adjusted proposed Consent Order for Omega Protein. Please review the draft and provide me with any comments by December 11, 2000.

If you have any questions about the Order, please contact me at (804) 527-5093.

Sincerely

Frank E. Lupini

Enforcement Specialist, Sr.

enclosure

cc: Omega Protein File VA0003867, w/o enclosure

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# COMMONWEALTH of VIRGINIA

#### DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr. Secretary of Natural Resources PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deq.state.va.us Dennis H. Treacy Director Gerard Seeley, Jr. Piedmont Regional Director

November 29, 2000

Mr. John Barnes, Environmental Manager Omega Protein Incorporated P.O. Box 175 Reedville, VA 22539

### **Privileged Settlement Communication**

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Adjusted Proposed Consent Order

Omega Protein Incorporated

**VPDĚS VA0003867** 

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Sincerely

Frank E. Lupini

Enforcement Specialist, Sr.

enclosure

cc: Omega Protein File VA0003867, w/o enclosure

# DRAFT STATE WATER CONTROL BOARD ENFORCEMENT ACTION SPECIAL ORDER BY CONSENT ISSUED TO OMEGA PROTEIN VPDES VA0003867

#### **SECTION A: Purpose**

This is a Consent Special Order issued under the authority of Va. Code §§ 10.1-1185 and 62.1-44.15(8a) and (8d), between the State Water Control Board and Omega Protein, for the purpose of resolving certain violations of environmental law and regulations.

#### **SECTION B: Definitions**

Unless the context clearly indicates otherwise, the following words and terms have the meaning assigned to them below:

- 1. "Va. Code" means the Code of Virginia (1950), as amended.
- 2. "Board" means the State Water Control Board, a permanent citizens' board of the Commonwealth of Virginia as described in Va. Code §§ 10.1-1184 and 62.1-44.7.
- 3. "Department" or "DEQ" means the Department of Environmental Quality, an agency of the Commonwealth of Virginia as described in Va. Code § 10.1-1183.
- 4. "Director" means the Director of the Department of Environmental Quality.
- 5. "Order" means this document, also known as a Consent Special Order.

- 6. "Omega Protein" means Omega Protein Incorporated, certified to do business in Virginia and its affiliates, partners, subsidiaries, and parents.
- 7. "Facility" means the Omega Protein Sewage Treatment Plant located in Reedville, Virginia.
- 8. "PRO" means the Piedmont Regional Office of DEQ, located in Glen Allen, Virginia.
- 9. "Permit" means VPDES permit No. VA0003867, which became effective December 17, 1997 and expires December 17, 2002.
- 10. "O&M" means operations and maintenance.

#### SECTION C: Findings of Fact and Conclusions of Law

- Omega Protein owns and operates a wastewater treatment facility in Northumberland County, Virginia. This facility is the subject of VPDES permit VA0003867, which allows Omega Protein to discharge treated wastewater into Cockrell's Creek and the Chesapeake Bay in strict compliance with terms, limitations and requirements outlined in the permit.
- 2. On April 28, 1999, DEQ executed a Consent Order with Omega for failing to report an unpermitted discharge. Omega paid a \$7,500 civil penalty and the Order was closed in March 2000. Since the Order has closed, DEQ has noted numerous violations of the State Water Control Law.
- 3. On April 26, 2000, DEQ issued NOV No. 00-03-PRO-001 to Omega citing them for an unpermitted discharge created by sandblasting a vessel in the creek without the proper BMPs in place. In addition, Omega was cited for failure to meet the reporting requirements in its permit by 1) not reporting an unusual discharge which occurred after an equipment failure on July 7, 1999, 2) late submittals of BMP reporting, 3) failure to submit quarterly progress reports, and 4) improper toxicity testing.
- 4. On August 1, 2000, DEQ issued NOV No. W2000-05-K-001 to Omega citing them for late submittal of a quarterly progress report and total suspended solids violations in May 2000.

#### SECTION D: Agreement and Order

Accordingly, the Board, by virtue of the authority granted it in Va. Code § 62.1-44.15(8a) and (8d), orders Omega Protein, and Omega Protein agrees, to perform the actions described in Appendix A of this Order. In addition, the Board orders Omega Protein, and Omega Protein voluntarily agrees, to pay a civil charge of \$18,600 within 30 days of the effective date of the

Order in settlement of the violations cited in this Order. Payment shall be made by check payable to the "Treasurer of Virginia", delivered to:

Receipts Control
Department of Environmental Quality
Post Office Box 10150
Richmond, Virginia 23240

#### **SECTION E: Administrative Provisions**

- 1. The Board may modify, rewrite, or amend the Order with the consent of Omega Protein, for good cause shown by Omega Protein, or on its own motion after notice and opportunity to be heard.
- 2. This Order only addresses and resolves those violations specifically identified herein. This Order shall not preclude the Board or the Director from taking any action authorized by law, including, but not limited to: (1) taking any action authorized by law regarding any additional, subsequent, or subsequently discovered violations; (2) seeking subsequent remediation of the facility as may be authorized by law; and/or (3) taking subsequent action to enforce the terms of this order. Nothing herein shall affect appropriate enforcement actions by other federal, state, or local regulatory authority, whether or not arising out of the same or similar facts.
- 3. For purposes of this Order and subsequent actions with respect to this Order, Omega Protein admits the jurisdictional allegations, factual findings, and conclusions of law contained herein.
- 4. Omega Protein consents to venue in the Circuit Court of the City of Richmond for any civil action taken to enforce the terms of this Order.
- 5. Omega Protein declares it has received fair and due process under the Administrative Process Act, Va. Code §§ 9-6.14:1 et seq., and the State Water Control Law and it waives the right to any hearing or other administrative proceeding authorized or required by law or regulation, and to any judicial review of any issue of fact or law contained herein. Nothing herein shall be construed as a waiver of the right to any administrative proceeding for, or to judicial review of, any action taken by the Board to enforce this Order.
- 6. Failure by Omega Protein to comply with any of the terms of this Order shall constitute a violation of an order of the Board. Nothing herein shall waive the initiation of appropriate enforcement actions or the issuance of additional orders as appropriate by the Board or the Director as a result of such violations. Nothing herein shall affect appropriate enforcement actions by any other federal, state, or local regulatory authority.

- 7. If any provision of this Order is found to be unenforceable for any reason, the remainder of the Order shall remain in full force and effect.
- 8. Omega Protein shall be responsible for failure to comply with any of the terms and conditions of this Order unless compliance is made impossible by earthquake, flood, other acts of God, war, strike, or such other occurrence. Omega Protein shall show that such circumstances were beyond its control and not due to a lack of good faith or diligence on its part. Omega Protein shall notify the DEQ Regional Director in writing when circumstances are anticipated to occur, are occurring, or have occurred that may delay compliance or cause noncompliance with any requirement of the Order. Such notice shall set forth:
  - a. the reasons for the delay or noncompliance;
  - b. the projected duration of any such delay or noncompliance;
  - c. the measures taken and to be taken to prevent or minimize such delay or noncompliance; and
  - d. the timetable by which such measures will be implemented and the date full compliance will be achieved.

Failure to so notify the Regional Director within 24 hours of learning of any condition above, which the parties intend to assert will result in the impossibility of compliance, shall constitute a waiver of any claim to inability to comply with a requirement of this Order.

- 9. This Order is binding on the parties hereto, their successors in interest, designees and assigns, jointly and severally.
- 10. This Order shall become effective upon execution by both the Director or his designee and Omega Protein. Notwithstanding the foregoing, Omega Protein agrees to be bound by any compliance date which precedes the effective date of this Order.
- 11. This Order shall continue in effect until the Director or Board terminates the Order in his or its sole discretion upon 30 days written notice to Omega Protein. Termination of this Order, or any obligation imposed in this Order, shall not operate to relieve Omega Protein from its obligation to comply with any statute, regulation, permit condition, other order, certificate, certification, standard, or requirement otherwise applicable.
- 12. By its signature below, Omega Protein voluntarily agrees to the issuance of this Order.

And it is so ORDERED this _	day of, 2000.
	The state of the s
	Dennis H. Treacy, Director Department of Environmental Quality
	-
Omega Protein voluntarily agrees to the issua	ance of this Order.
*	Ву:
	Date:
Commonwealth of Virginia	
City/County of	_
O10,1, O0 man, on	
The foregoing document was signed and ack	nowledged before me this day of
. 2000, by	, who is
, 2000, 0,	(name)
of Omega Protein, on	behalf of the Corporation.
(title)	<u>-</u>
	Notary Public
My commission expires:	

\*

### APPENDIX A

# Omega Protein shall:

- Immediately upon issuance of this Order, develop and submit to PRO standard
  operating procedures to ensure that reporting violations do not reoccur at Omega Protein.
- 2. Within thirty days of the issuance of this Order, submit to the PRO a diagnostic evaluation (DE) of the Omega Protein wastewater treatment system. A state registered professional engineer must conduct the DE. The DE shall be used to determine if the facility, as built, can meet the NPDES permit limits at design flow. The State registered professional engineer shall submit a stamped letter to the Department certifying that the facility can or cannot meet permit limits at design flow as built.
- 3. If the DE indicates that construction of an upgrade is required for the facility to meet permit limits, then sixty days from the issuance of the Order, submit to the PRO a preliminary engineering report and an implementation schedule for the upgrade construction. The schedule, once approved by the PRO, shall become an enforceable part of this Order.



# COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr. Secretary of Natural Resources PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deq.state.va.us

**December 12, 2000** 

Mr. John Barnes, Environmental Manager Omega Protein Incorporated 7393 Northumberland Highway Heathsville, Virginia 22473

**Privileged Settlement Communication** 

RE: Adjusted Proposed Consent Order Omega Protein Incorporated

VPDES VA0003867

Dear Mr. Barnes:

Enclosed is an adjusted proposed Consent Order for Omega Protein based on our discussions on November 29, 2000. Please review the draft and provide me with any comments by December 22, 2000. Also enclosed is a copy of Chapter 4 from the Enforcement Manual.

If you have any questions about the Order, please contact me at (804) 527-5093.

Dennis H. Treacy Director

Gerard Seeley, Jr. Piedmont Regional Director

DEC 2000

DΛ

Sincerely

Frank E. Lupini

Enforcement Specialist, Sr.

enclosure

CC:

Omega Protein File VA0003867, w/o enclosure

Denise Mosca, KSO w/ enclosure

# DRAFT STATE WATER CONTROL BOARD ENFORCEMENT ACTION SPECIAL ORDER BY CONSENT ISSUED TO OMEGA PROTEIN VPDES VA0003867

### **SECTION A: Purpose**

This is a Consent Special Order issued under the authority of Va. Code §§ 10.1-1185 and 62.1-44.15(8a) and (8d), between the State Water Control Board and Omega Protein, for the purpose of resolving certain violations of environmental law and regulations.

### **SECTION B: Definitions**

Unless the context clearly indicates otherwise, the following words and terms have the meaning assigned to them below:

- 1. "Va. Code" means the Code of Virginia (1950), as amended.
- 2. "Board" means the State Water Control Board, a permanent citizens' board of the Commonwealth of Virginia as described in Va. Code §§ 10.1-1184 and 62.1-44.7.
- 3. "Department" or "DEQ" means the Department of Environmental Quality, an agency of the Commonwealth of Virginia as described in Va. Code § 10.1-1183.
- 4. "Director" means the Director of the Department of Environmental Quality.
- 5. "Order" means this document, also known as a Consent Special Order.

- 6. "Omega Protein" means Omega Protein Incorporated, certified to do business in Virginia and its affiliates, partners, subsidiaries, and parents.
- 7. "Facility" means the Omega Protein Sewage Treatment Plant located in Reedville, Virginia.
- 8. "PRO" means the Piedmont Regional Office of DEQ, located in Glen Allen, Virginia.
- 9. "Permit" means VPDES permit No. VA0003867, which became effective December 17, 1997 and expires December 17, 2002.
- 10. "O&M" means operations and maintenance.

# SECTION C: Findings of Fact and Conclusions of Law

- 1. Omega Protein owns and operates a wastewater treatment facility in Northumberland County, Virginia. This facility is the subject of VPDES permit VA0003867, which allows Omega Protein to discharge treated wastewater into Cockrell's Creek and the Chesapeake Bay in strict compliance with terms, limitations and requirements outlined in the permit.
- 2. On April 28, 1999, DEQ executed a Consent Order with Omega for failing to report an unpermitted discharge. Omega paid a \$7,500 civil penalty and the Order was closed in March 2000. Since the Order has closed, DEQ has noted numerous violations of the State Water Control Law.
- 3. On April 26, 2000, DEQ issued NOV No. 00-03-PRO-001 to Omega citing them for an unpermitted discharge created by sandblasting a vessel in the creek without the proper BMPs in place. In addition, Omega was cited for failure to meet the reporting requirements in its permit by 1) not reporting an unusual discharge which occurred after an equipment failure on July 7, 1999, 2) late submittals of BMP reporting, 3) failure to submit quarterly progress reports, and 4) improper toxicity testing.
- 4. On August 1, 2000, DEQ issued NOV No. W2000-05-K-001 to Omega citing them for late submittal of a quarterly progress report and total suspended solids violations in May 2000.

# **SECTION D: Agreement and Order**

Accordingly, the Board, by virtue of the authority granted it in Va. Code § 62.1-44.15(8a) and (8d), orders Omega Protein, and Omega Protein agrees, to perform the actions described in Appendix A of this Order.

During the time that this Order is in effect, Omega Protein and DEQ agree that, until the VPDES permit is modified, compliance for TSS, BOD, and O&G will be determined at the sampling point for outfall 001. Omega further agrees to continue to monitor and report for TSS, BOD, and O&G at outfall 006. Results from the analysis at outfall 001 shall be included with the DMR submittal as a separate attachment.

In addition, the Board orders Omega Protein, and Omega Protein agrees, to pay a civil charge of \$18,600 within 30 days of the effective date of the Order in settlement of the violations cited in this Order. Payment shall be made by check payable to the "Treasurer of Virginia", delivered to:

Receipts Control
Department of Environmental Quality
Post Office Box 10150
Richmond, Virginia 23240

# **SECTION E: Administrative Provisions**

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- 1. The Board may modify, rewrite, or amend the Order with the consent of Omega Protein, for good cause shown by Omega Protein, or on its own motion after notice and opportunity to be heard.
- 2. This Order only addresses and resolves those violations specifically identified herein. This Order shall not preclude the Board or the Director from taking any action authorized by law, including, but not limited to: (1) taking any action authorized by law regarding any additional, subsequent, or subsequently discovered violations; (2) seeking subsequent remediation of the facility as may be authorized by law; and/or (3) taking subsequent action to enforce the terms of this order. Nothing herein shall affect appropriate enforcement actions by other federal, state, or local regulatory authority, whether or not arising out of the same or similar facts.
- 3. For purposes of this Order and subsequent actions with respect to this Order, Omega Protein admits the jurisdictional allegations, factual findings, and conclusions of law contained herein.
- 4. Omega Protein consents to venue in the Circuit Court of the City of Richmond for any civil action taken to enforce the terms of this Order.
- Omega Protein declares it has received fair and due process under the Administrative Process Act, Va. Code §§ 9-6.14:1 et seq., and the State Water Control Law and it waives the right to any hearing or other administrative proceeding authorized or required by law or regulation, and to any judicial review of any issue of fact or law contained herein. Nothing herein shall be construed as a waiver of the right to any administrative proceeding for, or to judicial review of, any action taken by the Board to enforce this Order.

- 6. Failure by Omega Protein to comply with any of the terms of this Order shall constitute a violation of an order of the Board. Nothing herein shall waive the initiation of appropriate enforcement actions or the issuance of additional orders as appropriate by the Board or the Director as a result of such violations. Nothing herein shall affect appropriate enforcement actions by any other federal, state, or local regulatory authority.
- 7. If any provision of this Order is found to be unenforceable for any reason, the remainder of the Order shall remain in full force and effect.
- 8. Omega Protein shall be responsible for failure to comply with any of the terms and conditions of this Order unless compliance is made impossible by earthquake, flood, other acts of God, war, strike, or such other occurrence. Omega Protein shall show that such circumstances were beyond its control and not due to a lack of good faith or diligence on its part. Omega Protein shall notify the DEQ Regional Director in writing when circumstances are anticipated to occur, are occurring, or have occurred that may delay compliance or cause noncompliance with any requirement of the Order. Such notice shall set forth:
  - a. the reasons for the delay or noncompliance;
  - b. the projected duration of any such delay or noncompliance;
  - c. the measures taken and to be taken to prevent or minimize such delay or noncompliance; and
  - d. the timetable by which such measures will be implemented and the date full compliance will be achieved.

Failure to so notify the Regional Director within 24 hours of learning of any condition above, which the parties intend to assert will result in the impossibility of compliance, shall constitute a waiver of any claim to inability to comply with a requirement of this Order.

- 9. This Order is binding on the parties hereto, their successors in interest, designees and assigns, jointly and severally.
- 10. This Order shall become effective upon execution by both the Director or his designee and Omega Protein. Notwithstanding the foregoing, Omega Protein agrees to be bound by any compliance date which precedes the effective date of this Order.
- 11. This Order shall continue in effect until the Director or Board terminates the Order in his or its sole discretion upon 30 days written notice to Omega Protein. Termination of this Order, or any obligation imposed in this Order, shall not operate to relieve Omega Protein from its obligation to comply with any statute,

	regulation, permit condition, requirement otherwise applic	other order, certificate, certification, standard cable.	l, or
12.	By its signature below, Ome Order.	ga Protein voluntarily agrees to the issuance of	of this
	And it is so ORDERED this	day of, 2001.	
		Dennis H. Treacy, Director Department of Environmental Quality	-
Omega Protei	in voluntarily agrees to the issu	uance of this Order.	
		Ву:	<u>=</u>
		Date:	-
Commonweal	lth of Virginia	* *	
City/County o	of	<u></u> -	
		knowledged before me this, who is (name)	_ day of
(title)	of Omega Protein, or	n behalf of the Corporation.	
		Notary Public	
	My commission expires:		: <b>-</b> 8

### **APPENDIX A**

### Omega Protein shall:

- 1. **Immediately upon issuance of this Order**, develop and submit to PRO standard operating procedures to ensure that reporting violations do not reoccur at Omega Protein.
- 2. Within thirty days of the issuance of this Order, submit to the PRO a diagnostic evaluation (DE) of the Omega Protein wastewater treatment system. A state registered professional engineer must conduct the DE. The DE shall be used to determine if the facility, as built, can meet the NPDES permit limits at design flow. The State registered professional engineer shall submit a stamped letter to the Department certifying that the facility can or cannot meet permit limits at design flow as built.
- 3. If the DE indicates that construction of an upgrade is required for the facility to meet permit limits, then sixty days from the issuance of the Order, submit to the PRO a preliminary engineering report and an implementation schedule for the upgrade construction. The schedule, once approved by the PRO, shall become an enforceable part of this Order.

# CHAPTER FOUR CIVIL CHARGE CALCULATIONS

This Chapter sets forth how the Department generally expects to exercise its enforcement discretion in determining an appropriate civil charge it will be willing to settle a case under the Air, Waste, and Water Laws. Civil charges are used for deterrence purposes and to remove the economic benefit of non-compliance. Before calculating a civil charge, the staff must first determine whether the alleged violation warrants a civil charge.

The civil charge calculations set forth here are also used to calculate penalties for Code § 10.1-1186 Special Order Proceedings for all three media. The development of the penalty amount to plead in a judicial complaint is developed independently of these procedures and thus is not addressed here.

### I. THE AIR PROGRAM

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The Virginia Air Pollution Control Law ("Air Law") at § 10.1-1316(C) provides for the inclusion of negotiated civil charges in Consent Orders with a source for violations of the Air Law and Regulations. The maximum limit for a civil charge is \$25,000 for each violation, with each day being a separate violation.

The following procedures address the calculation of civil charges under the Air Law and Regulations. To establish a civil charge, the enforcement staff must first determine if the violation is a "Serious," "Moderate," or "Marginal" violation. This classification is then used in the Civil Charge Calculation Worksheet ("Worksheet") to determine the civil charge amount.

### A. SERIOUS, MODERATE, AND MARGINAL VIOLATIONS

The terms "Serious," "Moderate," and "Marginal" as they appear on the Worksheet are intended to reflect the relative severity of the noncompliance that led to the civil charge. The severity of the violation is reflected in the amount of the standard civil charges provided on the Worksheet. The sum of these standard civil charges and those civil charges calculated specifically for the noncompliance situation is the civil charge assessed to the source. The classification determines the civil charge assessed for each category of violations with the exception of the economic benefit calculation.

The following sections identify standardized situations for each of the violation severity levels. Ultimately, it is the professional judgement of the regional personnel that will be the determining factor on what level of severity is assigned to each violation. The table is intended to provide examples of minimum violations for each category. Marginal and moderate violations can be upgraded based on site-specific information gathered by regional personnel. Adherence to

these procedures ensures consistency among the regions and DEQ adherence to EPA requirements.

# 1. Serious Violations

The following are considered serious violations:

- No PSD permit
- No permit for Major Sources
- NESHAP standards violations
- Substantive NSPS standards violations at Major Point Sources
- A Major Source violating Virginia Air Regulations
- Refusal to stack test and/or submit stack test report
- Violations which cause actual documented NAAQS violations
- SAAC violations
- Throughput violations triggering PSD review
- Deliberately bypassing control equipment for Major Point Source
- Not maintaining control equipment for Major Point Source in a manner consistent with good air pollution control practice
- Failure to install, maintain, and operate federally required CEM equipment

### 2. Moderate Violations

The following are considered moderate violations:

- NSPS standards violations at SM Point Sources
- An SM/B Source violating Virginia Air Regulations
- Deliberately bypassing control equipment for SM Point Source
- Not maintaining control equipment for SM Point Source in a manner consistent with good air pollution control practice

### 3. Marginal Violations

The following are considered marginal violations:

- No permit for a B Point Source
- NSPS standards violations at B Point Sources

Most reporting violations (including NESHAP reporting requirements)

- Throughput violation not triggering PSD review
- Deliberately bypassing control equipment for B Point Source

 Not maintaining B Point Source control equipment in a manner consistent with good air pollution control practice

### B. <u>CIVIL CHARGE CALCULATION</u>

In providing for civil charges, the Code states that the size of the owner's business, the severity of the economic impact of the civil charge on the business, and the seriousness of the violation shall be considered. To address these requirements, the enforcement staff should incorporate the following in the civil charges: the economic benefit derived through noncompliance and an amount reflective of the severity of the violation. When developing a civil charge, due consideration should be given to the responses and actions of the source.

Civil charges are calculated using the "Civil Charge Calculation Worksheet" ("Worksheet"), which is found at the end of this section on the Air Program. The categories of violations are the numbered items that make up the Worksheet, which are further described below. When using the Worksheet to address multiple violations discovered during the same compliance determinant activity, charges are to be calculated for each violation, independently, with the exception of items 8 and 11, and then combined to provide the total proposed civil charge.

### 1. Permit or Regulatory Violations

This category is general in nature and is intended to establish a minimum charge for all violations of regulatory or permit requirements. This charge is in addition to any which may be applicable under item 4 of the Worksheet for the same violation. If the source is being assessed for violation of a PSD, NESHAP, or NSPS requirement, the applicable charges in item 1 are to be multiplied by 2.

To address this issue, a series of questions are provided on the Worksheet as follows:

- a. <u>Is a permit required?</u> This civil charge is applicable to situations of construction/modification/reconstruction without a new source permit and to the failure to obtain an operating permit
- b. Is the source operating without the required permit? This civil charge is applicable to situations of construction/modification/reconstruction without a new source permit where the source has begun operation of the source or point source affected by the permit applicability determination. This civil charge is assessed in addition to item 1.a.

c. <u>Is a permit/regulation violated?</u> This civil charge applies to violations of permit conditions and requirements of the Air Regulations.

### 2. Consent Order Violations

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a. <u>Is a Consent Order condition violated?</u> This civil charge is assessed if the source has violated requirements of a Consent Order and is in addition to those civil charges that may be applicable in items 1, 3, or 4 of the Worksheet.

### 3. Pollution Control Equipment Violations

This civil charge is assessed for the failure to install or properly operate and maintain air pollution control equipment. The pertinent questions on the Worksheet are as follows:

- a. <u>Is equipment installed?</u> In other words, are appropriate air pollution controls present? This civil charge is applicable to, but not limited to, situations of:
- Failure to install air pollution control equipment specifically required by permit or regulation, or removal of such equipment;
- Failure to install equipment necessary to meet BACT or LAER (in situations of construction/modification/reconstruction without a permit) as may be determined through the permit review process; or
- Failure to install control equipment capable of meeting emissions limits established by permit or regulations.
- b. <u>If installed, is equipment operating properly?</u> In other words, are the air pollution controls operating properly? This civil charge applies to situations where the source neglects to operate the equipment or is not operating or maintaining the equipment adequately.

Note that assessment of item 3 civil charges is not limited to traditional end-of-the-pipe equipment but is also applicable to production equipment, particularly if this equipment has been identified as BACT/RACT/LAER. Also, careful consideration must be given to the assessment of this civil charge when assessed in combination with item 4 of the Worksheet. A situation could exist where the pollution controls are maintained and operated properly but an emission violation still occurs. It is not appropriate in this situation to assess a civil charge for improperly operated pollution control equipment, just the emissions violation.

### 4. Emission/Monitoring Violations

Located on the Worksheet are four questions related to emission/monitoring violations. The amount of the civil charge associated with the individual questions is based on the percentage over the emission limit for the emission violations and the type of violation for the

CEM violations. Table 1 establishes the civil charge based on the percentage over emission limit and the point source classification.

- a. Are there visible emission violations? See Table 1.
- b. Are there emission standard violations? See Table 1.
- c. <u>Are there CEM violations?</u> Situations assessed under this category include other types of compliance assurance tracking/reporting, *i.e.* fuel certifications. CEM violations include:
  - Continual Late Submittal of EER or Other Periodic Compliance Assurance Report. Add \$500 to base amount on Worksheet. Ten days will be allotted to the source to submit the EER after notice of the violation. Another \$200 per day will be charged for every day after the ten-day grace period. The civil charge under this category is calculated on an emissions unit basis, i.e, if the source must submit a quarterly report for three emissions units and two were late, the civil charge would be \$1,000 with \$400 added each day after the 10-day grace period.

This civil charge is assessed commencing with the second consecutive late submittal of a required periodic compliance assurance report (i.e., excess emissions report, monitoring system performance report, Data Assessment Report, fuel certification report, emissions report, etc). Reporting requirements include those found in §§ 9 VAC 5-40-50(C) and 9 VAC 5-50-50(C) of the Regulations, Subpart A (and other applicable Subparts) of NSPS, Appendix F of NSPS, consent orders, or permits.

- Failure to Perform Required Audits. Section 9 VAC 5-50-410 of the Regulations incorporates by reference those subparts of 40 CFR Part 60 that incorporate audit requirements. In addition, § 9 VAC 5-40-1780(D) of the Regulations requires audits be performed by those facilities subject to Rule 4-13. Add \$1,500 to base amount in Worksheet. Two weeks will be allotted to the source to perform the audit. An additional \$200 per day will be charged for every day past the two week grace period. The civil charge under this category is calculated on a monthly basis, i.e., if the source must conduct a quarterly audit on three individual monitoring systems (excluding redundant back-up systems) and two were late, the civil charge would be \$3,000 with \$400 added each day after the ten-day grace period.
- Excessive Downtime on CEM. Section 9 VAC 5-50-410 of the Regulations incorporates by reference those subparts of 40 CFR Part 60 which include monitor availability requirements. In addition, § 9 VAC 5-40-1780(D) of the Regulations establishes monitor availability requirements for those facilities subject to Rule 4-13. Add \$2,000 to base amount on Worksheet for each monitoring system which does not meet the required monitor availability.

d. Are there toxic pollutant violations? This civil charge is assessed to emissions and monitoring violations involving a toxic pollutant. A toxic pollutant is defined in the Regulations as "any air pollutant for which no ambient air quality standard has been established." The staff is reminded that, for "existing sources," the Regulations establish significant ambient air concentration "guidelines" for toxic pollutants. If the existing source is found to be in excess of a guideline, the Regulations provide specific alternatives to address the exceedence. Therefore, an existing source is not considered to be a toxic pollutant violator until or unless DEQ has notified it of the exceedence and the source has failed to respond as specified in § 9 VAC 5-40-220.

Where a violation involves exceedence of a permit limit for a toxic pollutant, a charge should be assessed for both the emission violation and the toxic pollutant.

# 5. Sensitivity of the Environment

This category focuses on the geographic location of the violation. Civil charges associated with this category are dependent on the nonattainment/attainment status or the PSD area classification and the classification of the violation. The sensitivity of the environment charge applies only to emission standards violations or to work practice or technology standards that serve as emission standards. When a violation occurs in a nonattainment area, the nonattainment charge applies only for violations involving pollutants or pollutant precursors for which the area is designated nonattainment. The description of the nonattainment areas and the PSD classifications are provided in the Regulations.

### 6. Preliminary Civil Charge Subtotal

Sum all assessed charges in items 1 through 5.

### 7. Length of Time Factor

The longer a violation continues uncorrected, the greater the potential for harm to air quality. The Worksheet addresses this consideration in the category labeled "Length of Time Factor." The charge is developed by multiplying the number of days the violation occurred by 0.274. The result of this calculation is the Percent (%) Increase Factor. This factor must be divided by 100 to obtain the decimal expression, which is then multiplied with the preliminary subtotal to obtain the additional civil charge. The time span (expressed in days) used to calculate the charge begins on the day, based on documented evidence, the violation began for emission violations and the day of discovery of the violation for administrative violations. The time span ends on the date the source agrees in principle to a set of corrective actions designed to achieve compliance with the regulatory requirement for which the charge(s) was (were) assessed. For

situations of construction without a permit, the time span ends when the source submits a complete permit application for the affected process or equipment.

The following is an example of how to calculate a "length of time" civil charge:

- Calculate the length of time in days that the noncompliance existed. For example, 200 days elapsed between the beginning day of the noncompliance and the date the source agreed in principle to a set of corrective actions necessary to return to a state of compliance.
- Multiply the number of days by 0.274. Take 200 and multiply it by 0.274 to get 54.8. You can round this up to whole numbers to get 55.
- Divide this number by 100. This yields the Length of Time Factor. 55 divided by 100 yields 0.55.
- Multiply the base amount of the civil charge calculated on the Worksheet by the Length of Time Factor. Assume for this example that the base amount is \$1,000. 1,000 times 0.55 yields \$550.
- Enter the calculated amount into the entry block in item 7 on the Worksheet.

### 8. Compliance History

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The staff considers prior enforcement activities of the Air Law and Regulations in adjusting the civil charge based on the source's compliance history. Prior enforcement activities include any act or omission resulting in an enforcement response, as described in Chapter Two of this Manual. Warning Letters and NOVs that are not pursued would not be considered. This factor may be used to increase — but not decrease — a charge. Evidence of an excellent compliance history cannot be used as justification for reducing a civil charge on a current and unrelated violation. See Table 2.

### 9. Extended Compliance

"Extended compliance" means extending the date by which the source is required to comply with any compliance date(s). The extended compliance civil charge is intended to apply to situations where the proposed schedule is based upon limitations such as a reasonable construction or equipment delivery schedule. Compliance delays proposed for monetary considerations or for the sake of convenience (i.e., to coordinate equipment installation with the routine annual maintenance shutdown) should only be accepted if the source demonstrates that the associated financial burden is beyond their "ability to pay."

If the source is proposing a schedule that will extend the compliance schedule, a calculated charge for such an extension is appropriate. The consent order shall include a schedule detailing important interim dates and the final date by which compliance will be achieved.

Federal Regulations list specific procedures for processing *Delayed Compliance Orders*. EPA maintains the authority to disapprove any DEQ approved Delayed Compliance Orders subject to the public participation guidelines described in 40 CFR §65.04. All proposed Delayed Compliance Orders shall be transmitted to the Central Office for review prior to entering into a consent order with that source.

If the source is proposing a schedule that will extend a compliance date, there will be a commensurate impact on air quality. A calculated charge for such an extension is appropriate; consequently, when a consent order includes a provision for such a schedule, the amount calculated for items 1-7 should be increased according to length of the extended compliance. Calculate the length of the extension, in months, and multiply this number by 2.78. This gives the percent increase due to the extended compliance. For compliance schedules of less than one month (30 days), calculation of an extended compliance charge is not necessary. Partial months (as determined on 30-day increments) will be assessed as a full month when calculating the extended compliance charge.

The following is an example of how to calculate an "extended compliance" civil charge:

- Calculate the length of time, in months (on a 30-day basis), compliance will be extended by execution of the order. For example, the schedule described in the consent order indicates a six-month (180 day) delay before compliance will be achieved.
- Multiply the number of months by 2.78. Take 6 and multiply it by 2.78 to get 16.68. You can round this up to whole numbers to get 17.
- Divide this number by 100. This yields the Extended Compliance Factor. 17 divided by 100 yields 0.17.
- Multiply the base amount of the civil charge calculated on the Worksheet by the Extended Compliance Factor. Continuing with this example, the base amount is \$1,000. \$1,000 times 0.17 yields \$170.
- Write the calculated charge into the entry block in item 9 on the Worksheet.

### 10. Economic Benefit of Noncompliance

Section 113(e) of the federal Clean Air Act states, in part, that in assessing civil penalties the "economic benefit of noncompliance" shall be taken into consideration. The reason for applying this factor in a civil charge is to ensure the charge acts as a deterrent to noncompliance. By developing a civil charge assessment structure that incorporates this deterrent effect, an enforcement action removes any economic gain that a source accrues by avoiding or delaying costs necessary to achieve compliance.

The existence of a significant economic benefit gained from noncompliance must be evaluated on a case-by-case basis. The inspector must use professional judgement when making the preliminary determination that an economic benefit exists. When there exists an indication of

an economic benefit based on delayed or avoided costs, the staff shall estimate the value of the economic benefit and include this amount in the proposed civil charge.

# a. Delayed Versus Avoided Costs

A necessary first step when making a preliminary determination of an economic benefit is understanding the costs avoided or delayed through noncompliance. A delayed cost is an expenditure that, through current noncompliance, can be put off to sometime in the future. An avoided cost is an expenditure that will not be made due to noncompliance.

- Examples of delayed costs include, but are not limited to: failure to install equipment needed to meet emission control standards; failure to effect process changes needed to reduce pollution; failure to test where the test still must be performed; and failure to install required monitoring equipment.
- Examples of avoided costs include, but are not limited to: disconnecting or failing to properly operate and maintain existing pollution control equipment; failure to employ a sufficient number of staff; failure to adequately train staff; failure to establish or follow precautionary methods required by regulations or permits; removal of pollution equipment resulting in process, operational or maintenance savings; disconnecting or failing to properly operate and maintain required monitoring equipment; and operation and maintenance of equipment that the violator failed to install.

# b. Adjustments to the Calculated Economic Benefit

The inspector may have insight into conditions that affect the amount of the calculated economic benefit. The regional staff should describe:

- Conditions that indicate economic benefit is insignificant. The significance of an economic benefit must be determined on a case-by-case basis. The relative insignificance of the economic benefit depends on the impact it will have on the violation and the size of civil charges exclusive of the economic benefit calculation.
- Compelling public concern. Compelling public concern as a basis for mitigating the economic benefit amount may be significant when the amount of the economic benefit calculated may result in an extreme financial burden and there is important public interest in retaining the source. Public concern may be a factor where the violators are public entities.
- Existing administrative action or order. Where a source is in the process of settling a previous civil charge it may be appropriate to consider adjustments to the economic benefit calculation.

# 11. Charge Adjustment Calculation

In order to promote equity in the process of assessing a civil charge, the process for developing a civil charge must be flexible enough to account for factors that are unique to each source. The incorporation of case-by-case mitigating factors, however, must be done in a manner that does not sacrifice consistency. This is accomplished by establishing "adjustment factors" that provide a basis for distinguishing among individual enforcement actions. For the purposes of civil charge adjustment, these factors are: degree of willfulness or negligence, degree of cooperation, and environmental damage.

The calculated charge for the Worksheet excluding the economic benefit calculation can be reduced by up to 30% for cooperation and a good faith effort to comply with regulatory requirements or permit conditions. These good faith efforts could come in the form of prompt reporting of noncompliance, prompt correction of environmental problems, and cooperation during pre-filing investigation. The degree of cooperation is the only basis for reducing a civil charge. The degree of willfulness or negligence and environmental damage are only applicable in this context as reasons for increasing the civil charge.

- Civil Charge Disclosure It is the DEQ's approach to be totally open with the source and the public regarding the worksheet and the basis for the civil charge.
- Additional Civil Charge Reduction The total civil charge may be reduced by more than 30% if extraordinary circumstances exist. Additional reductions must be evaluated by OEC for consistency and approved by the Regional Compliance and Enforcement Manager.

The Worksheet has a category entitled "Charge Adjustment Calculation," which is used to calculate the adjustment to be applied to the total charge. This category should contain the amount of any charge reduction and the charge adjustment factor. The civil charge adjustment factor shall be applied to the total charge after the economic benefit amount has been subtracted. The final Charge Adjustment is then subtracted from the total calculated civil charge to obtain the final assessed civil charge.

### C. ABILITY TO PAY A CIVIL CHARGE

The overriding mitigating factor in adjusting civil charges and economic benefit is the source's ability to pay. DEQ must consider reducing the amount assessed on a violation when that amount is beyond the violator's means.

 $\begin{tabular}{ll} \textbf{\it Table 1.} \\ \textbf{OPACITY AND EMISSION LIMIT VIOLATIONS} \\ \textbf{\it MONETARY CIVIL CHARGE MATRIX} \\ \end{tabular}$ 

% over allowed opacity limitation	SOURCE CLASSIFICATION			
	A	SM	В	
10	\$200	\$100	\$50	
20	300	150	100	
30	400	250	150	
40	500	350	200	
50	600	450	250	
60	700	550	300	
70	800	650	350	
80	900	750	400	
90	1,000	850	450	
100	1,100	950	500	
200	2,000	1,500	1,000	
300	5,000	3,000	1,500	
400	10,000	6,000.	2,000	

### **OPACITY VIOLATION EXAMPLE:**

An SM source is allowed 5% opacity for a baghouse controlling a point source. Method 9 shows 40% opacity. Calculate the assessment for the opacity violation.

- 1. Subtract the allowed limitation (5%) from the results from Method 9 (40%) to obtain the % OVER. In this case, the resultant is 35%.
- 2. Locate the % OVER in Table 1. above. The table reports percentages in steps of 10%. Read 30% (\$250) and 40% (\$350) and record these same numbers.

$$\frac{35-30}{40-30}x(350-250) = $300 Civil Charge$$

3. Interpolate to determine the charge for the opacity violation.

Table 2.

COMPLIANCE HISTORY (previous 36 months)

Number of Violations	Charge Factor
Second Violation	.50
Third Violation	1.00
Over Third Violation	(N-3)+1.00

### TO CALCULATE A COMPLIANCE HISTORY CHARGE

- 1. Review the sources compliance history to determine if any additional violations were noted during the previous 36 months. For example, the source had a previous NOV issued 14 months prior to the currently pending enforcement action (do not include additional violations which were discovered as part of the same inspection).
- 2. Look up on the above table and determine the appropriate factor to adjust the civil charge. The current enforcement action represents the second violation in 36 months so the Charge Factor is 0.50 (or 50%).
- 3. Multiply the base amount of the civil charge calculated on the Worksheet by the Charge Factor. From the example above the base charge is \$1,000. Multiplying \$1,000 by 0.5 yields \$500.
- 4. Write the calculated amount of the civil charge into the entry block in item "8. Compliance History" on the Civil Charge Calculation Worksheet.

Civil Charge Calculation Worksheet  Revised 12/98		\$	Violations			
Part for the right from the part of the first production of the part and an experience and the part and the p	was a gran		Serious	Moderate	Marginal	
122 Permit Violation - Multiply by 2 if PSD/NESP	IAPs/(o)	Make or used the barrier	to Caragoral and a work of the land of	Charletti vetti a esta in amili	and the first time to the second of the	
a. Is a permit required? (if No, go to 1.c below)	Yes	No	\$6,000	\$2,000	\$1,000	
b. Is the source operating without the required permit?	Yes	No	\$4,000	\$2,000	\$1,000	
c. Is a permit/regulation violated? (excluding 4 below)	Yes	No	\$2,000	\$1,000	\$600	
) madistrice Smirthus				i -1-14.7		
a. Is a Consent Order condition violated?	Yes	No	\$4,000	\$2,000	\$1,000	
Sold (100 % (mostless of masses) a falson as	The state of the s	ERISTO NOM	description recor			
a. Is equipment installed? (If no, assess charge, go to 4)	Yes	No	\$10,000	\$6,000	\$2,000	
b. If installed, is equipment operating properly?	Yes	No	\$10,000	\$6,000	\$2,000	
ke Phalismatymaticating value cons		C W CHAP			vie substant	
a. Visible Emissions	Yes	No	See T	able 1		
b. Emission Standards or Limits	Yes	No	See T	able 1		
c. CEM Violations	Yes	No	See T	able 2		
d. Toxic Pollutant	Yes	No	\$2,000	\$1,000	\$600	

a. Nonattainment area	\$4,000	\$2,000	\$1,000
b. Class I PSD area	\$2,000	\$1,000	\$600
c. Class II and III PSD area	\$1,000	\$400	\$200
A simboly (18th Decay Subj <b>oy</b> I.)			
Thereford than therefore 1999	See T	able 3	
Conditions Many (1984)	See Ta	able 4	
Televisias complexes	See Ta	See Table 5	
Repaired Grant	BEN N	BEN Model	
- Leves situation - to difficilità india - 1940	Factor =		

### II. THE WASTE PROGRAM

DEQ negotiates with parties for the payment of civil charges for past violations in an order issued by the Waste Management Board pursuant to the Waste Management Act, Va. Code § 10.1-1455. The maximum limit for a civil charge is \$25,000 for each violation, with each day being a separate violation.

### A. CONSENT ORDERS WITHOUT CIVIL CHARGES

As an initial matter, the enforcement staff determines whether the alleged violation is of a nature to warrant a civil charge. The following basic criteria should be met in all such cases without civil charges: there has been no or minimal environmental impact, the facility is not a chronic facility, and the facility is making a good-faith effort to comply. The emphasis in all cases, but particularly in cases without civil charges, should be on prompt and appropriate injunctive relief. No civil charge or economic benefit need be computed for cases qualifying under this section.

# B. CONSENT ORDERS WITH CIVIL CHARGES

Civil charges are calculated for all waste programs using the Waste Civil Charge Worksheet, which is found at the end of the Waste Program section. A separate Worksheet is completed for each alleged violation. Multiple violations that arise out of a single act or omission may be consolidated into a single violation for purposes of calculating civil charges. In no case may the total civil charge for a single violation exceed the statutory maximum of \$25,000 per day of violation.

In calculating the appropriate civil charge, enforcement staff addresses the following seven components which are discussed in greater detail below.

- Gravity-based component, which is calculated before any adjustments are made
- "Multi-day" component, as appropriate, to account for continuing violations
- The facility's degree of culpability
- The facility's compliance history
- Economic benefit of noncompliance, if appropriate
- An adjustment component, to include cooperativeness/quick settlement, promptness of injunctive relief/good faith effort to comply, and strategic considerations
- Ability to pay

# C. GRAVITY-BASED COMPONENT

The gravity-based component is assessed based on the violation's "potential for harm" and the extent to which the violation deviates from the regulatory requirement, which is facility's status as SNC or SV.

### 1. Potential for Harm

There are three categories of "potential for harm" into which a violation may be placed which are "Serious," "Moderate," and "Marginal." These categories are used throughout the Worksheet for each component.

- SERIOUS: (1) The violation has caused actual exposure or presents a *substantial risk* of exposure of humans or other environmental receptors to waste or constituents; and/or (2) the actions have or may have a *substantial adverse effect* on statutory or regulatory purposes or procedures for implementing the regulatory program.
- MODERATE: (1) The violation presents or may present a *significant risk* of exposure of humans or other environmental receptors to waste or constituents; and/or (2) the actions have or may have a *significant adverse effect* on statutory or regulatory purposes or procedures for implementing the regulatory program.
- MARGINAL: (1) The violation presents or may present a relatively low risk of exposure of humans or other environmental receptors to waste or constituents; and/or (2) the actions have or may have a small adverse effect on statutory or regulatory purposes or procedures for implementing the regulatory program.

A facility is placed into one of these categories based on: (1) the extent of risk of exposure of humans or other environmental receptors, and/or (2) the effect on the regulatory program.

- a. Risk of Exposure. Risk of exposure involves both the probability of exposure and potential consequences that may result from exposure.
  - Probability of Exposure. Where a violation involves the actual management of waste, a civil charge should reflect the probability that the violation could have or has resulted in a release of waste or constituents or could have or has resulted in a condition that creates a threat of exposure to waste or waste constituents. The likelihood of a release is determined based on whether the integrity and/or stability of the waste management unit is likely to have been compromised. Some factors to consider in making this determination are: (1) evidence of release (e.g., existing soil or groundwater contamination), (2) evidence of waste mismanagement (e.g., rusting drums), and (3) adequacy of provisions for detecting and preventing a release (e.g., monitoring equipment and inspection

procedures). A larger civil charge is presumptively appropriate where the violation significantly impairs the ability of the waste management system to prevent and/or detect releases of waste and constituents.

• Potential Consequences. In calculating risk of exposure, enforcement personnel weigh the harm that would result if the waste or constituents were in fact released to the environment. Some factors to consider in making this determination are: (1) quantity and toxicity of wastes (potentially) released; (2) likelihood or fact of transport by way of environmental media (e.g., air and groundwater); and (3) existence, size, and proximity of receptor populations (e.g., local residents, fish and wildlife, including threatened or endangered species) and sensitive environmental media (e.g., surface waters and aquifers).

In considering the risk of exposure, the emphasis is placed on the potential for harm posed by a violation rather than on whether harm actually occurred. The presence or absence of direct harm in a noncompliance situation is something over which the facility may have no control. Such facilities should not be rewarded with lower civil charges simply because the violations happened not to have resulted in actual harm.

- b. Effect on the regulatory program. There are some requirements of the Waste Program that, if violated, may not likely give rise directly or immediately to a significant risk of contamination. Nonetheless, all regulatory requirements are fundamental to the continued integrity of the regulatory program. Violations of such requirements may have serious implications and merit a substantial civil charge where the violation undermines the statutory or regulatory purposes or procedures for implementing the regulatory program. Examples of regulatory harm include, but are not limited to:
  - Failure to notify as a generator or transporter of hazardous waste and/or owner of a hazardous waste facility
  - Failure to comply with financial assurance requirements
  - Failure to submit a timely/adequate solid waste Part B application
  - Failure to respond to a formal information request
  - · Operating without a permit or interim status
  - Failure to prepare or maintain a hazardous waste manifest
  - Failure to install or conduct adequate groundwater monitoring.
  - Certain failures to comply with record keeping that undermine DEQ's ability to determine compliance

# 2. Extent of Deviation: SNC/SV Status

The extent to which the violation deviates from the regulatory requirement is the second factor considered in assessing the gravity-based component. For hazardous waste, the extent of deviation is based on the status of a facility as SNC or SV under the 1996 EPA Enforcement Response Policy. This determination will normally already have been made as part of the enforcement referral process.

For purposes of evaluating non-hazardous solid waste civil charges, violations that result in enforcement referral are SNC. Other violations that, by themselves, do not cause the referral are SV.

### D. <u>MULTI-DAY COMPONENT</u>

This component is calculated by multiplying the number of days of continuing violations. This component is calculated by multiplying the number of days of continuing violations ("n") by the factor in the appropriate matrix cell. Use of a multi-day component beyond 180 days is discretionary. The "potential for harm" determination already made for calculation of the gravity-based component is used to select the appropriate cell on the Worksheet for this component. Use of a multi-day component is presumed for days 2 through 180 of all violations that caused a facility to be designated as a SNC. The multi-day component may be waived where good cause for waiver is documented in the ERP.

### E. <u>DEGREE OF CULPABILITY</u>

Under this provision, the civil charge is increased if there is substantial evidence that the alleged violation was caused by the negligence of the facility or by a deliberate act of the facility. The "potential for harm" determination already made for calculation of the gravity-based component is used to select the appropriate cell on the Worksheet for this component.

For purposes of calculating the civil charge on the Worksheet, violations of Consent Orders are presumed to be the result of either a negligent or a deliberate act of the facility.

### F. COMPLIANCE HISTORY

This provision increases the civil charge for repeat violations of the same requirement within at least the previous 36 months of the violation. In evaluating this factor, it should be remembered that the owner's history is at issue, not the facility's. Consequently, for example, if a facility with a history of noncompliance is purchased or taken over by a new owner with little or no such history, this factor component may not be assessed.

The "potential for harm" determination already made for calculation of the gravity-based component is also used to select the appropriate cell on the Worksheet for this component.

# G. ECONOMIC BENEFIT OF NONCOMPLIANCE

This provision recovers the economic benefit of noncompliance derived from the violation. This factor may be calculated with the EPA computer model BEN. The calculation is made based on the Cumulative Subtotal arrived at on the Worksheet before adjustments, if any, are made.

The intent is to recoup the economic benefit of noncompliance in all cases. There are four general areas, however, where settling for less than the total civil charge amount for less than the economic benefit may be appropriate. The four exceptions are:

- The economic benefit component consists of an insignificant amount (i.e., less than \$2500).
- There are compelling public concerns that would not be served by taking a case to trial.
- It is unlikely, based on the facts of the particular case as a whole, that DEQ will be able to recover the economic benefit in litigation.
- The facility has documented an inability to pay the total proposed civil charge.

### F. ADJUSTMENT FACTORS

The civil charge Cumulative Subtotal – excluding the economic benefit of noncompliance calculation – may be reduced by up to 30% based on several factors where there are clearly documented case-specific facts that support the adjustment. Those factors include cooperativeness/quick settlement, promptness of injunctive response/good faith effort to comply, and strategic considerations. Any decision whether or not to apply any adjustments is within the sole discretion of the appropriate DEQ management. Decisions regarding adjustment are not subject to administrative appeal or judicial review. The justification for applying an adjustment must be reasonable and documented in the ERP.

### 1. Cooperativeness/Quick Settlement

An adjustment may be provided where the facility is cooperative in resolving the case in a timely and appropriate manner and it makes a good faith effort to settle the violations quickly.

# 2. Promptness of Injunctive Response/Good Faith Effort to Comply

Good faith efforts to comply with regulatory requirements or permit conditions could come in the form of prompt reporting of noncompliance or prompt correction of environmental problems. A reduction may be given to facilities that promptly initiate corrective actions in response to violations. Consideration should be given to institutional or legal limitations on corrective actions. For example, a municipality may be unable to institute corrective action

immediately because of funding procedures. Owners who agree to expedited corrective action schedules may qualify for this reduction. Also, the replacement of facility management who might have been unresponsive to violations, unbeknownst to facility owners, may be considered.

In evaluating this reduction factor, it is appropriate to consider the effectiveness and quality of DEQ notification, compliance assistance, and general customer service given to the facility following violations or identification of compliance problems.

### 3. Strategic Considerations

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Strategic considerations include litigation potential, the precedential value of the case, the size of the facility, problems of proof in the case, impacts or threat of impacts (or lack thereof) to human health or the environment, and probability of meaningful recovery of civil charges and/or costs.

### H. ABILITY TO PAY

A reduction based on inability to pay may be considered in a case where the facility has demonstrated that a significant economic hardship would result from the full civil charge. The burden to demonstrate inability to pay rests on the facility. The EPA computer models ABEL, INDIPAY, or MUNIPAY may be used to evaluate ability to pay.

If a facility cannot pay the civil charge otherwise called for by this policy or would be prevented from carrying out essential remedial measures by paying the full amount, the following options should be considered in the order presented:

- Installment payment plan with interest
- Delayed payment schedule with interest
- Reduction based on ability to pay modeling

# WASTE CIVIL CHARGE WORKSHEET

	<b>建</b>		Potential	For Harm	
Violation:No.			Serious	Moderate	Marginal
1. Gravity-based component		57	64. 7 34 444	V + 14 -	Familia Sign
a. Does violation meet SNC criteria?	Y	N	20,000	8,000	1,500
b. Does violation meet SV criteria?	Y	N	11,000	3,000	100
c. Gravity-based subtotal			71.4		
2. Multi-day component (n = number of days of continuing violation)				e The latest transfer of the second s	
Does the multi-day component apply?  If no, go to #3.	Y	N	Tak Bilang popul 30 - C	ik en etr ir ke ke erind Minimir Kank	
b. Does violation meet SNC criteria?	Y	N	1,000 x n	400 x n	100 x n
c. Does violation meet SV criteria?	Y	N	550 x n	150 х п	100 x n
d. Multi-day subtotal					
3. Degree of culpability.			And print the second se	L-Is-G-S	
a. Is there substantial evidence of Willfulness or negligence?	Y	N	5,000	3,000	1,500
b. Culpability subtotal		27.02°		A Carlo	
4. Compliance history.				4 _ 1137 2 11 _ 11 _ 12 _ 12 _ 12 _ 12 _ 12 _ 12	jedicinak d Kaliuf Masir
a. For an SNC, has this violation occurred before within the past 36 months?	Y	N	5,000	3,000	1,500
b. For an SV, has this violation occurred Before within the past 36 months?	Y	N	4,000	2,000	400
c. Compliance history subtotal	erita eritalisti ki	miles in	ene Rooffinger		
5. Cumulative Subtotal (lines 1c+2d+3b+4c)			Market -	3	
6. Economic benefit of noncompliance			Hard Comments of the Comments	6	
TOTAL					

# III. THE WATER PROGRAM

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The State Water Control Law ("Water Law") at Code § 62.1-44.32 provides for the inclusion of negotiated civil charges in Consent Orders with a facility for violations of the Water Law and Regulations. The maximum limit for a civil charge is \$25,000 for each violation, with each day being a separate violation.

The procedures in Part B of this section address the calculation of civil charges under the Water Law and Regulations for settlement purposes in VPDES, VWPP, VPA, GWPP, AST, and UST cases. Part C of this section addresses the calculation of civil charges for confined animal feeding operations ("CAFOs"). Under Code § 62.1-44.17:1(J), permittees in violation of CAFO general permits are subject to a maximum of \$2,500. Part D of this section addresses calculation of civil charges for oil spills, which have a unique civil charge scheme under § 62.1-44.34:20 of up to \$100 per gallon of petroleum released to the environment.

# A. CONSENT ORDERS WITHOUT CIVIL CHARGES

Consent Orders can be executed without civil charges when in DEQ's judgment it is in the best interest of public health or the environment, or both. The following basic criteria should be met in all cases without civil charges: there has been no or minimal environmental impact, the facility is not a chronic facility, and the facility is making a good-faith effort to comply. The emphasis in all cases, but particularly in cases without civil charges, should be on prompt and appropriate injunctive relief. No civil charge or economic benefit need be computed for cases qualifying under this section. Assuming the basic criteria are met, the following types of cases may qualify. This list is illustrative and not intended to be exhaustive.

- Municipal VPDES (major or minor) upgrade or expansion or collection system correction delayed due to the inability to secure funding.
- Where interim limits are needed pending connection to municipal wastewater treatment system or a larger regional wastewater treatment system.
- Minor VPDES permittees, such as trailer courts operating lagoons or other antiquated systems that will eventually shut down or be connected to a sewer system.
- Violations resulting from unavoidable or unforeseeable events, and also of short duration with little or no environmental impact, but not including violations of reporting requirements.

# B. <u>CONSENT ORDERS WITH CIVIL CHARGES</u>

Civil charges are generally appropriate in Consent Orders when one or more of the following criteria are met: failure to respond to technical assistance efforts, violation of enforcement orders without mitigating circumstances, violations that are avoidable, noncompliance that is continuing or likely to recur, knowing violations, or violations resulting in environmental damage.

Before calculating the civil charge, the statutory maximum civil charge (\$25,000 per violation per day in most cases) is estimated to determine the maximum liability of the facility. This can be useful information in negotiations, as facilities should be mindful of the liability they might face in a judicial proceeding.

To calculate the appropriate civil charge in an administrative settlement:

- Determine the civil charge per violation, generally on a "per month" of violation basis for effluent limits and failure to report and on a "per event" basis for violations such as unpermitted discharges or failure to implement proper operations and maintenance procedures;
- Estimate the cost of injunctive remedies needed to resolve the case;
- Determine economic benefit; and
- Then use these values to determine the baseline civil charge.

The baseline civil charge may be reduced based on the following factors: size and type of facility, history of recalcitrance, promptness of injunctive response, quick settlement adjustment, litigation considerations, and ability to pay. As noted above, the final recommended civil charge cannot exceed the statutory maximum amount.

# 1. Charge Per Violation/Gravity Component

When civil charges are warranted, the civil charge is determined using the Water Civil Charge Worksheet, which is found at the end of Section B. Effluent limitation charges and other ongoing violations are added on a monthly basis. "Per event" charges are added on a one-time basis. These charges would generally be capped at \$50,000 per month.

The amounts on the Water Civil Charge Worksheet include a gravity component that is measured as "Serious," "Moderate" or "Marginal" and takes environmental impact and the severity of the alleged violation into consideration. Environmental impact considerations evaluate the site-specific occurrence of or likelihood of impacts or damage to human health or the environment. Severity considerations examine whether the violations or pattern of violations at issue are those that are fundamental to the continued integrity of the regulatory program. Violations of such requirements may have serious implications and merit substantial civil charges where the violation undermines the statutory or regulatory purposes or procedures for implementing the regulatory program.

The three categories are defined as follows:

• SERIOUS: (1) The violation has impacted or presents an *imminent and substantial* risk of impacting human health and/or the environment such that serious damage has resulted or is likely to result, and/or (2) the actions have or may have a substantial

adverse effect on statutory or regulatory purposes or procedures for implementing the regulatory program. Examples include fish kills, effluent violations resulting in loss of beneficial uses, failure to report an unpermitted discharge, or chronic refusal to apply for a permit or perform TMP.

- MODERATE: (1) The violation presents or may present some risk of impacting the environment, but those impacts would be minimal and correctable in a reasonable period of time, and/or (2) the actions have or may have a noticeable adverse effect on statutory or regulatory purposes or procedures for implementing the regulatory program. Examples include unpermitted discharges resulting in identifiable sedimentation into state waters, failure to observe BMPs in VWPP permits, preventable accidents, or chronic late submission of monitoring reports or permit application materials.
- MARGINAL: (1) The violation presents little or no risk of environmental impact, and/or (2) the actions have or may have a little or no adverse effect on statutory or regulatory purposes or procedures for implementing the regulatory program. Examples include, but are not limited to: an improperly completed DMR, minor exceedances (i.e., less than or equal to 10% of the allowable limit) in land application with no impact to ground or surface water.

# 2. Cost of Injunctive Remedy

The cost of the injunctive remedy necessary to bring the facility back into compliance should be estimated for later use in the calculation.

### 3. Economic Benefit

The removal of the economic benefit of noncompliance serves to place the facility in the same position it would have been if compliance had been achieved on time. Both deterrence and fairness require that the civil charge include, as appropriate and practicable, an additional amount to ensure that the facility is economically worse off than if it had obeyed the law.

Facilities that violate the Water Law may have obtained an economic benefit as a result of delayed or completely avoided pollution control expenditures during the period of noncompliance. Commonly delayed or avoided expenditures include, but are not limited to:

- Monitoring and reporting (including costs of the sampling and proper laboratory analysis)
- Capital equipment improvement or repairs, including engineering design, purchase, installation, and replacement
- Operation and maintenance expenses (e.g., labor, power, chemicals) and other annual expenses

• One-time acquisitions (such as equipment or real estate purchases)

EPA's BEN model is a method for calculating economic benefit from delayed and avoided expenditures. Refer to the "BEN User's Manual" for specific information on the operation of BEN. If the economic benefit exceeds \$10,000, BEN should be used to calculate benefit. BEN uses thirteen data variables, of which eight contain default values. The five required variables are information about capital and non-capital costs, annual operation and maintenance costs, and the dates for the period of noncompliance. BEN allows a cooperative facility to provide actual financial data that may affect the civil charge calculation. For economic benefit calculations of less than \$10,000 or where the facility will not or cannot provide financial data in a timely manner, staff may make estimates based on available resources, including their best professional judgment.

### 4. Baseline Civil Charge

One of the main purposes of assessing a civil charge is to ensure significant economic benefit is not gained from failure to comply with the law and regulations. Thus, the baseline civil charge takes into consideration the gravity-based component (cost of the violations), the cost of injunctive relief (what the facility will have to pay to correct the problem), and the economic benefit from noncompliance.

The following steps are taken to determine the Baseline Civil Charge, as set forth on the Worksheet:

- The Gravity-based Component is calculated based on the civil charge assessed per violation and any aggravating factors.
- The Cost of Injunctive Relief (what the facility will have to pay to correct the violations) is estimated.
- These two numbers are added together to get the "out-of-the-pocket" cost of the violations, which is called the Violation/Cost Combined Total.
- The Violation/Cost Combined Total is then compared to the Economic Benefit of Noncompliance, which is determined using the BEN model.
  - If the Violation/Cost Combined Total is less than the Economic Benefit figure, the Economic Benefit number is used for further calculation.
  - If the Violation/Cost Combined Total is greater than the Economic Benefit figure, the Violation/Cost Combined Total is used for further calculation.
- Since the facility will be expending funds to correct the violations (i.e., cost of injunctive relief), that amount is subtracted from the last number calculated above. This number is called the Baseline Civil Charge. By subtracting the cost of injunctive relief, the Baseline Civil Charge number recognizes that, by expending these funds to

correct the violations, that portion of the economic benefit gained from not doing so earlier is substantially captured through payment of these expenses.

The total Baseline Civil Charge cannot exceed the total statutory maximum of \$25,000 per violation per day of violation.

### 5. Adjustments

The baseline civil charge may be reduced up to 30% based on several factors, including size and type of facility, history of recalcitrance, promptness of injunctive response, quick settlement adjustment, litigation considerations, and ability to pay. Any decision whether or not to apply any adjustments is within the sole discretion of the appropriate DEQ management and the State Water Control Board, when it is in session. Decisions regarding adjustment are not subject to administrative appeal or judicial review. The justification for applying an adjustment must be reasonable and documented in the ERP.

- a. Size and type of facility/owner. Reductions are appropriate for small facilities. Such a reduction, however, may not be appropriate for a small facility owned by a large corporation. Facilities providing a critical community service (e.g., municipal plants, hospitals and schools) are appropriate for this reduction.
- b. <u>History of compliance.</u> A reduction is appropriate if the owner's history of recalcitrance is limited or nonexistent. In evaluating this factor, it should be remembered that the owner's history is at issue, not the facility's. Consequently, for example, if a facility with a long history of recalcitrance is purchased or taken over by a new owner with little or no history or recalcitrance, a reduction for this factor may be justified.
- c. <u>Cooperativeness/quick settlement.</u> A reduction may be given to a facility that makes good faith efforts to settle the alleged violations quickly.
- d. Promptness of injunctive response/good faith effort to comply. Good faith efforts to comply with regulatory requirements or permit conditions could come in the form of prompt reporting of noncompliance or prompt correction of environmental problems. A reduction may be given to facilities that promptly initiate corrective actions in response to violations. Consideration should be given to institutional or legal limitations on corrective actions: for example, a municipality may be unable to institute corrective action immediately because of funding procedures. Owners who agree to expedited corrective action schedules may also qualify for this reduction. Also the replacement of facility management who might have been unresponsive to violations, unbeknownst to facility owners, may be considered.

In evaluating this reduction factor, it is appropriate to consider the effectiveness and quality of DEQ notification, compliance assistance, and general customer service given to the facility following violations or even identification of compliance problems.

- e. Ability to pay. A reduction based on inability to pay may be considered in a case where the facility has demonstrated that a significant economic hardship would result from the full civil charge. Any facility that qualifies under the ABEL procedure will receive the maximum adjustment for this factor.
- f. Strategic considerations. Strategic considerations include litigation potential, the precedential value of the case, problems of proof in the case, impacts or threat of impacts (or lack thereof) to human health or the environment, and probability of meaningful recovery of civil penalties and/or costs.

# 6. Final Recommended Civil Charge

The Baseline Civil Charge minus the adjustments from section five results in the Final Recommended Civil Charge. The ERP must demonstrate the justifications for these calculations and contain approvals from appropriate DEQ management before proceeding to final negotiations with the facility to settle the case. In the event that facts are gleaned during the negotiations that would prompt further adjustment of the Final Recommended Civil Charge, the ERP must be amended accordingly. Clearly documented, case-specific facts may justify adjustment of the Final Recommended Civil Charge for settlement purposes.

#### WATER CIVIL CHARGE WORKSHEET

le (errylly-passed Component and a	200		Serious	Moderate	Marginal	
a. Violations and Frequency per MONTH unless noted			\$\$ x occurrences	\$\$ x occurrences	\$\$ x occurrences	SUBTOTAL
Effluent Limits	Y	N	1K x	500 x	200 x	
Operational Deficiencies	Y	N	1K x	500 x	200 x	
Monitoring/Submissions	Y	N	1K x	500 x	200 x	
Bypasses/ Overflows per day	Y	N	500 x	300 x	100 x	
Spills/Unpermitted Discharge/Withdrawal per event	Y	И	10K x	5K x	1K x	
Compliance/Construction/Payment Schedules	Y	N	1K x	500 x	200 x	
No Permit/ODCP	Y	N	2K x	lKx	500 x	
Failure to Report per event, per month	Y	N	10 <b>K</b> x	5K x	1K x	
					Subtotal #1a	
b. Aggravating Factors as Multipliers	料	iţi				productive and
Major Facility?	Y	N	Subtotal #1a x .2			
Consent/Judicial Order Violations?	Y	N	Subtotal #Ia x .5	- Andrews		
Deliberate Act?	Y	N	Subtotal #1a x .5			
					Subtotal #1b	
RAVITY BASED COMPONENT TOTAL (A	dd S	ubto	otal #1a and Subtotal #1	lb)	TOTAL#1	
Cost of Injunctive Remedy estimated			17.00		TOTAL #2	
Violation/Cost Combined Total						
Add TOTAL #1 and TOTAL #	<del>‡</del> 2				TOTAL #3	
Economic Benefit of Noncompliance calculate				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	TOTAL #4	

1

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#### C. CAFO CONSENT ORDERS WITH CIVIL CHARGES

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Under Code § 62.1-44.17:1(J), permittees in violation of CAFO general permits are subject to a maximum civil charge of \$2500.

Using the CAFO Civil Charge Worksheet, which follows Section C, staff assess appropriate civil charges on a per settlement action basis. Aggravating factors, including threats to human health and safety, environmental damage, consent order or judicial decree violation or any evidence of deliberate acts or omissions are then assessed to determine the Baseline Civil Charge.

Thereafter, an adjustment of up to 30% may be taken based on the following factors: size and type of facility owner; history of compliance; cooperativeness/quick settlement; promptness of injunctive response/good faith effort to comply; ability to pay; and strategic considerations. These adjustment factors are discussed in the previous section. Decisions regarding adjustment are not subject to administrative appeal or judicial review. The justification for applying an adjustment must be reasonable and documented in the ERP.

The Baseline Civil Charge minus adjustments results in the Final Recommended Civil Charge. In the event that facts are gleaned during the negotiations that would prompt further adjustment of the Final Recommended Civil Charge, the ERP must be amended accordingly. Clearly documented, case-specific facts may justify adjustment of the Final Recommended Civil Charge for settlement purposes. In no event may the final recommended civil charge for CAFO general permit violations exceed \$2500. However, onsite violations not addressed under the CAFO section of the Water Law (e.g., such as discharges of pollutants to state waters without a permit) should be assessed separately using the general water civil charge procedures.

Revision No. 1

December 1, 1999

#### CAFO CIVIL CHARGE WORKSHEET

			Silver Miller		74) w 1564
a: Violations count each violation per INSPE	TLOMuniess otherwis	enoted	-SSS	#of occurrences	Subtotal
Failure to monitor soils, waste or groundwater					\$
Failure to maintain records			500		\$
Failure to calibrate equipment; on NMP, manuf	acturers or O&M manu	als on site	500		\$
Improper documentation of liner, seasonal h	nigh water table, sitin	g, design and	500		\$
Improperly precharged lagoon, insufficient free	board		1000		\$
Improper sludge removal, inadequate vegetative	e cover, trees or brush	on berm	500	á	\$
NMP Violations per incident: Maximum waste application exceeded, inadequate crop condition, improper crop rotation, waste applied outside spreading schedule					\$
Maximum nutrient loading exceeded, evidence of breeched buffers, runoff or erosion, per incident					\$
Animal units exceeded			1000		\$
NMP not timely revised			1000		\$
Other			500		s
		SU	BTOTALS		\$
bl-Aggravating Factors as Multipliers multip	ly the Subtote (\$55.15) 2	Sif any of the f	ollowing fac	tors apply (circle)	Mark des
Threat to Human Health or Safety	Environmental Damage	Consent/Judic Violation	ial Order	Evidence of Deliber	rate Act or Omission
			7 <b>17 17</b>		\$
Promptness of Injunctive Response/Good	Size/Type of	History of	Ability	Cooperation/	Strategic
Faith Effort to Comply	Compliance	to Pay	Quick Settlement	Considerations	

#### D. OIL SPILL CONSENT ORDERS WITH CIVIL CHARGES

Oil spills are subject to a unique civil charge scheme under § 62.1-44.34:20 in which civil charges are to be calculated based upon the amount of petroleum released into the environment in violation of Code § 62.1-44.34:14 et seq., up to \$100 per gallon.

Using the Oil Spill Civil Charge Worksheet, which is found after this section, staff evaluate and assess a dollar value of from \$0 to \$100 for each of seven statutory factors, including: willfulness of violation; damage or injury to state waters or beneficial uses; history of noncompliance; actions undertaken in reporting, containing, and cleaning up the discharge; cost of containment and clean up; nature/degree of injury to health, welfare or property; and available technology to prevent, contain, reduce or eliminate the discharge.

The dollar value for each of the seven statutory factors is then added, and the total divided by seven to provide an average "per gallon" civil charge figure. This civil charge figure is then multiplied by the total number of gallons of petroleum released to the environment to determine the Baseline Civil Charge.

Thereafter, an adjustment of up to 30% may be made based on the following factors: size and type of facility owner; history of compliance; cooperativeness/quick settlement; promptness of injunctive response/good faith effort to comply; ability to pay; and strategic considerations. These adjustment factors are discussed in Section B above. Decisions regarding adjustment are not subject to administrative appeal or judicial review. The justification for applying an adjustment must be reasonable and documented in the ERP.

The Baseline Civil Charge minus adjustments results in the Final Recommended Civil Charge. In the event that facts are gleaned during the negotiations that would prompt further adjustment of the Final Recommended Civil Charge, the ERP must be amended accordingly. Clearly documented, case-specific facts may justify adjustment of the Final Recommended Civil Charge for settlement purposes.

#### OIL SPILL CIVIL CHARGE WORKSHEET

Le William Sec. St. Violenton	S Amounts
	s
niz Damage/Injury to State Waters or Impairment of Beneficial Use	L W+637,031 24
	S
effic History of (Non-Compliance) and a second control of the compliance of the control of the c	構造學科
	\$
iv. Actions in Reporting/Containing/Oleaning Up the Discharge.	e nember de receptories d
	s
TVX Cost of Containment and Clean Up 1	
VX Cost of Contaminent and Clean Up	
	Section 25 Section 2
via: Nature/Degree of Injury to Health Welfare and Property: 4 11 15 20 20 20 20 20 20 20 20 20 20 20 20 20	
	\$
viii Available/Technology to Prevent/Contain/Reduce/Eliminate Discharge	
	\$
SUBTOTAL	\$
	TO THE REAL PROPERTY.
(Subtotal) ÷ 7 = + 7 = x (Gallons released to the environment) =	s
Promptness of Inj. Response Size/Type of History of Ability to Pay Cooperation Quick Good Faith Effort to Comply Facility Owner Compliance Settlement	Strategic Considerations
Good Faith Erion to Compily Pacifity Owner Compilance Settlement  TOTAL	\$



### COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr. Secretary of Natural Resources PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deq.state.va.us

December 12, 2000

Dennis H. Treacy Director

Gerard Seeley, Jr. Piedmont Regional Director

Mr. John Barnes, Environmental Manager Omega Protein Incorporated 7393 Northumberland Highway Heathsville, Virginia 22473

#### **Privileged Settlement Communication**

RE:

Adjusted Proposed Consent Order Omega Protein Incorporated VPDES VA0003867

Dear Mr. Barnes:

Enclosed is an adjusted proposed Consent Order for Omega Protein based on our discussions on November 29, 2000. Please review the draft and provide me with any comments by December 22, 2000. Also enclosed is a copy of Chapter 4 from the Enforcement Manual.

If you have any questions about the Order, please contact me at (804) 527-5093.

Sincerely

Frank E. Lupini

Enforcement Specialist, Sr.

enclosure

cc: Omega Protein File VA0003867, w/o enclosure

Denise Mosca, KSO w/ enclosure

# DRAFT STATE WATER CONTROL BOARD ENFORCEMENT ACTION SPECIAL ORDER BY CONSENT ISSUED TO OMEGA PROTEIN VPDES VA0003867

#### **SECTION A: Purpose**

This is a Consent Special Order issued under the authority of Va. Code §§ 10.1-1185 and 62.1-44.15(8a) and (8d), between the State Water Control Board and Omega Protein, for the purpose of resolving certain violations of environmental law and regulations.

#### **SECTION B: Definitions**

Unless the context clearly indicates otherwise, the following words and terms have the meaning assigned to them below:

- 1. "Va. Code" means the Code of Virginia (1950), as amended.
- 2. "Board" means the State Water Control Board, a permanent citizens' board of the Commonwealth of Virginia as described in Va. Code §§ 10.1-1184 and 62.1-44.7.
- 3. "Department" or "DEQ" means the Department of Environmental Quality, an agency of the Commonwealth of Virginia as described in Va. Code § 10.1-1183.
- 4. "Director" means the Director of the Department of Environmental Quality.
- 5. "Order" means this document, also known as a Consent Special Order.

- 6. "Omega Protein" means Omega Protein Incorporated, certified to do business in Virginia and its affiliates, partners, subsidiaries, and parents.
- 7. "Facility" means the Omega Protein Sewage Treatment Plant located in Reedville, Virginia.
- 8. "PRO" means the Piedmont Regional Office of DEQ, located in Glen Allen, Virginia.
- 9. "Permit" means VPDES permit No. VA0003867, which became effective December 17, 1997 and expires December 17, 2002.
- 10. "O&M" means operations and maintenance.

#### SECTION C: Findings of Fact and Conclusions of Law

- 1. Omega Protein owns and operates a wastewater treatment facility in Northumberland County, Virginia. This facility is the subject of VPDES permit VA0003867, which allows Omega Protein to discharge treated wastewater into Cockrell's Creek and the Chesapeake Bay in strict compliance with terms, limitations and requirements outlined in the permit.
- 2. On April 28, 1999, DEQ executed a Consent Order with Omega for failing to report an unpermitted discharge. Omega paid a \$7,500 civil penalty and the Order was closed in March 2000. Since the Order has closed, DEQ has noted numerous violations of the State Water Control Law.
- 3. On April 26, 2000, DEQ issued NOV No. 00-03-PRO-001 to Omega citing them for an unpermitted discharge created by sandblasting a vessel in the creek without the proper BMPs in place. In addition, Omega was cited for failure to meet the reporting requirements in its permit by 1) not reporting an unusual discharge which occurred after an equipment failure on July 7, 1999, 2) late submittals of BMP reporting, 3) failure to submit quarterly progress reports, and 4) improper toxicity testing.
- 4. On August 1, 2000, DEQ issued NOV No. W2000-05-K-001 to Omega citing them for late submittal of a quarterly progress report and total suspended solids violations in May 2000.

#### SECTION D: Agreement and Order

Accordingly, the Board, by virtue of the authority granted it in Va. Code § 62.1-44.15(8a) and (8d), orders Omega Protein, and Omega Protein agrees, to perform the actions described in Appendix A of this Order.

During the time that this Order is in effect, Omega Protein and DEQ agree that, until the VPDES permit is modified, compliance for TSS, BOD, and O&G will be determined at the sampling point for outfall 001. Omega further agrees to continue to monitor and report for TSS, BOD, and O&G at outfall 006. Results from the analysis at outfall 001 shall be included with the DMR submittal as a separate attachment.

In addition, the Board orders Omega Protein, and Omega Protein agrees, to pay a civil charge of \$18,600 within 30 days of the effective date of the Order in settlement of the violations cited in this Order. Payment shall be made by check payable to the "Treasurer of Virginia", delivered to:

Receipts Control
Department of Environmental Quality
Post Office Box 10150
Richmond, Virginia 23240

#### SECTION E: Administrative Provisions

- 1. The Board may modify, rewrite, or amend the Order with the consent of Omega Protein, for good cause shown by Omega Protein, or on its own motion after notice and opportunity to be heard.
- 2. This Order only addresses and resolves those violations specifically identified herein. This Order shall not preclude the Board or the Director from taking any action authorized by law, including, but not limited to: (1) taking any action authorized by law regarding any additional, subsequent, or subsequently discovered violations; (2) seeking subsequent remediation of the facility as may be authorized by law; and/or (3) taking subsequent action to enforce the terms of this order. Nothing herein shall affect appropriate enforcement actions by other federal, state, or local regulatory authority, whether or not arising out of the same or similar facts.
- 3. For purposes of this Order and subsequent actions with respect to this Order, Omega Protein admits the jurisdictional allegations, factual findings, and conclusions of law contained herein.
- 4. Omega Protein consents to venue in the Circuit Court of the City of Richmond for any civil action taken to enforce the terms of this Order.
- 5. Omega Protein declares it has received fair and due process under the Administrative Process Act, Va. Code §§ 9-6.14:1 et seq., and the State Water Control Law and it waives the right to any hearing or other administrative proceeding authorized or required by law or regulation, and to any judicial review of any issue of fact or law contained herein. Nothing herein shall be construed as a waiver of the right to any administrative proceeding for, or to judicial review of, any action taken by the Board to enforce this Order.

- 6. Failure by Omega Protein to comply with any of the terms of this Order shall constitute a violation of an order of the Board. Nothing herein shall waive the initiation of appropriate enforcement actions or the issuance of additional orders as appropriate by the Board or the Director as a result of such violations. Nothing herein shall affect appropriate enforcement actions by any other federal, state, or local regulatory authority.
- 7. If any provision of this Order is found to be unenforceable for any reason, the remainder of the Order shall remain in full force and effect.
- 8. Omega Protein shall be responsible for failure to comply with any of the terms and conditions of this Order unless compliance is made impossible by earthquake, flood, other acts of God, war, strike, or such other occurrence. Omega Protein shall show that such circumstances were beyond its control and not due to a lack of good faith or diligence on its part. Omega Protein shall notify the DEQ Regional Director in writing when circumstances are anticipated to occur, are occurring, or have occurred that may delay compliance or cause noncompliance with any requirement of the Order. Such notice shall set forth:
  - a. the reasons for the delay or noncompliance;
  - b. the projected duration of any such delay or noncompliance;
  - c. the measures taken and to be taken to prevent or minimize such delay or noncompliance; and
  - d. the timetable by which such measures will be implemented and the date full compliance will be achieved.

Failure to so notify the Regional Director within 24 hours of learning of any condition above, which the parties intend to assert will result in the impossibility of compliance, shall constitute a waiver of any claim to inability to comply with a requirement of this Order.

- 9. This Order is binding on the parties hereto, their successors in interest, designees and assigns, jointly and severally.
- 10. This Order shall become effective upon execution by both the Director or his designee and Omega Protein. Notwithstanding the foregoing, Omega Protein agrees to be bound by any compliance date which precedes the effective date of this Order.
- 11. This Order shall continue in effect until the Director or Board terminates the Order in his or its sole discretion upon 30 days written notice to Omega Protein. Termination of this Order, or any obligation imposed in this Order, shall not operate to relieve Omega Protein from its obligation to comply with any statute,

	regulation, permit condition, requirement otherwise applic	, other order, certificate, certification, sta cable.	ndard, or
12.	By its signature below, Ome Order.	ga Protein voluntarily agrees to the issua	ınce of this
	And it is so ORDERED this	day of, 2001.	
		Dennis H. Treacy, Director Department of Environmental Quality	
Omega Protei	n voluntarily agrees to the issu	uance of this Order.	
		Ву:	
		Date:	
Commonweal	th of Virginia		
City/County o	f	_	(%)
• •	•	cnowledged before me this	day of
	, 2000, by	(name), who is	
	of Omega Protein, on		
		Notary Public	
	My commission expires:		•

#### APPENDIX A

#### Omega Protein shall:

- 1. Immediately upon issuance of this Order, develop and submit to PRO standard operating procedures to ensure that reporting violations do not reoccur at Omega Protein.
- 2. Within thirty days of the issuance of this Order, submit to the PRO a diagnostic evaluation (DE) of the Omega Protein wastewater treatment system. A state registered professional engineer must conduct the DE. The DE shall be used to determine if the facility, as built, can meet the NPDES permit limits at design flow. The State registered professional engineer shall submit a stamped letter to the Department certifying that the facility can or cannot meet permit limits at design flow as built.
- 3. If the DE indicates that construction of an upgrade is required for the facility to meet permit limits, then sixty days from the issuance of the Order, submit to the PRO a preliminary engineering report and an implementation schedule for the upgrade construction. The schedule, once approved by the PRO, shall become an enforceable part of this Order.

## CHAPTER FOUR CIVIL CHARGE CALCULATIONS

This Chapter sets forth how the Department generally expects to exercise its enforcement discretion in determining an appropriate civil charge it will be willing to settle a case under the Air, Waste, and Water Laws. Civil charges are used for deterrence purposes and to remove the economic benefit of non-compliance. Before calculating a civil charge, the staff must first determine whether the alleged violation warrants a civil charge.

The civil charge calculations set forth here are also used to calculate penalties for Code § 10.1-1186 Special Order Proceedings for all three media. The development of the penalty amount to plead in a judicial complaint is developed independently of these procedures and thus is not addressed here.

#### I. THE AIR PROGRAM

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The Virginia Air Pollution Control Law ("Air Law") at § 10.1-1316(C) provides for the inclusion of negotiated civil charges in Consent Orders with a source for violations of the Air Law and Regulations. The maximum limit for a civil charge is \$25,000 for each violation, with each day being a separate violation.

The following procedures address the calculation of civil charges under the Air Law and Regulations. To establish a civil charge, the enforcement staff must first determine if the violation is a "Serious," "Moderate," or "Marginal" violation. This classification is then used in the Civil Charge Calculation Worksheet ("Worksheet") to determine the civil charge amount.

#### A. SERIOUS, MODERATE, AND MARGINAL VIOLATIONS

The terms "Serious," "Moderate," and "Marginal" as they appear on the Worksheet are intended to reflect the relative severity of the noncompliance that led to the civil charge. The severity of the violation is reflected in the amount of the standard civil charges provided on the Worksheet. The sum of these standard civil charges and those civil charges calculated specifically for the noncompliance situation is the civil charge assessed to the source. The classification determines the civil charge assessed for each category of violations with the exception of the economic benefit calculation.

The following sections identify standardized situations for each of the violation severity levels. Ultimately, it is the professional judgement of the regional personnel that will be the determining factor on what level of severity is assigned to each violation. The table is intended to provide examples of minimum violations for each category. Marginal and moderate violations can be upgraded based on site-specific information gathered by regional personnel. Adherence to

these procedures ensures consistency among the regions and DEQ adherence to EPA requirements.

#### 1. Serious Violations

The following are considered serious violations:

- No PSD permit
- No permit for Major Sources
- NESHAP standards violations
- Substantive NSPS standards violations at Major Point Sources
- A Major Source violating Virginia Air Regulations
- Refusal to stack test and/or submit stack test report
- Violations which cause actual documented NAAQS violations
- SAAC violations
- Throughput violations triggering PSD review
- Deliberately bypassing control equipment for Major Point Source
- Not maintaining control equipment for Major Point Source in a manner consistent with good air pollution control practice
- Failure to install, maintain, and operate federally required CEM equipment

#### 2. <u>Moderate Violations</u>

The following are considered moderate violations:

- NSPS standards violations at SM Point Sources
- An SM/B Source violating Virginia Air Regulations
- Deliberately bypassing control equipment for SM Point Source
- Not maintaining control equipment for SM Point Source in a manner consistent with good air pollution control practice

#### 3. Marginal Violations

The following are considered marginal violations:

- No permit for a B Point Source
- NSPS standards violations at B Point Sources

Most reporting violations (including NESHAP reporting requirements)

- Throughput violation not triggering PSD review
- Deliberately bypassing control equipment for B Point Source
- Not maintaining B Point Source control equipment in a manner consistent with good air pollution control practice

#### B. <u>CIVIL CHARGE CALCULATION</u>

In providing for civil charges, the Code states that the size of the owner's business, the severity of the economic impact of the civil charge on the business, and the seriousness of the violation shall be considered. To address these requirements, the enforcement staff should incorporate the following in the civil charges: the economic benefit derived through noncompliance and an amount reflective of the severity of the violation. When developing a civil charge, due consideration should be given to the responses and actions of the source.

Civil charges are calculated using the "Civil Charge Calculation Worksheet" ("Worksheet"), which is found at the end of this section on the Air Program. The categories of violations are the numbered items that make up the Worksheet, which are further described below. When using the Worksheet to address multiple violations discovered during the same compliance determinant activity, charges are to be calculated for each violation, independently, with the exception of items 8 and 11, and then combined to provide the total proposed civil charge.

#### 1. Permit or Regulatory Violations

This category is general in nature and is intended to establish a minimum charge for all violations of regulatory or permit requirements. This charge is in addition to any which may be applicable under item 4 of the Worksheet for the same violation. If the source is being assessed for violation of a PSD, NESHAP, or NSPS requirement, the applicable charges in item 1 are to be multiplied by 2.

To address this issue, a series of questions are provided on the Worksheet as follows:

- a. <u>Is a permit required?</u> This civil charge is applicable to situations of construction/modification/reconstruction without a new source permit and to the failure to obtain an operating permit
- b. Is the source operating without the required permit? This civil charge is applicable to situations of construction/modification/reconstruction without a new source permit where the source has begun operation of the source or point source affected by the permit applicability determination. This civil charge is assessed in addition to item 1.a.

c. <u>Is a permit/regulation violated?</u> This civil charge applies to violations of permit conditions and requirements of the Air Regulations.

#### 2. Consent Order Violations

a. Is a Consent Order condition violated? This civil charge is assessed if the source has violated requirements of a Consent Order and is in addition to those civil charges that may be applicable in items 1, 3, or 4 of the Worksheet.

#### 3. Pollution Control Equipment Violations

This civil charge is assessed for the failure to install or properly operate and maintain air pollution control equipment. The pertinent questions on the Worksheet are as follows:

- a. <u>Is equipment installed?</u> In other words, are appropriate air pollution controls present? This civil charge is applicable to, but not limited to, situations of:
- Failure to install air pollution control equipment specifically required by permit or regulation, or removal of such equipment;
- Failure to install equipment necessary to meet BACT or LAER (in situations
  of construction/modification/reconstruction without a permit) as may be determined through the permit review process; or
- Failure to install control equipment capable of meeting emissions limits established by permit or regulations.
- b. <u>If installed, is equipment operating properly?</u> In other words, are the air pollution controls operating properly? This civil charge applies to situations where the source neglects to operate the equipment or is not operating or maintaining the equipment adequately.

Note that assessment of item 3 civil charges is not limited to traditional end-of-the-pipe equipment but is also applicable to production equipment, particularly if this equipment has been identified as BACT/RACT/LAER. Also, careful consideration must be given to the assessment of this civil charge when assessed in combination with item 4 of the Worksheet. A situation could exist where the pollution controls are maintained and operated properly but an emission violation still occurs. It is not appropriate in this situation to assess a civil charge for improperly operated pollution control equipment, just the emissions violation.

#### 4. Emission/Monitoring Violations

Located on the Worksheet are four questions related to emission/monitoring violations. The amount of the civil charge associated with the individual questions is based on the percentage over the emission limit for the emission violations and the type of violation for the

CEM violations. Table 1 establishes the civil charge based on the percentage over emission limit and the point source classification.

- a. Are there visible emission violations? See Table 1.
- b. Are there emission standard violations? See Table 1.
- c. <u>Are there CEM violations?</u> Situations assessed under this category include other types of compliance assurance tracking/reporting, i.e. fuel certifications. CEM violations include:
  - Continual Late Submittal of EER or Other Periodic Compliance Assurance Report. Add \$500 to base amount on Worksheet. Ten days will be allotted to the source to submit the EER after notice of the violation. Another \$200 per day will be charged for every day after the ten-day grace period. The civil charge under this category is calculated on an emissions unit basis, i.e, if the source must submit a quarterly report for three emissions units and two were late, the civil charge would be \$1,000 with \$400 added each day after the 10-day grace period.

This civil charge is assessed commencing with the second consecutive late submittal of a required periodic compliance assurance report (i.e., excess emissions report, monitoring system performance report, Data Assessment Report, fuel certification report, emissions report, etc). Reporting requirements include those found in §§ 9 VAC 5-40-50(C) and 9 VAC 5-50-50(C) of the Regulations, Subpart A (and other applicable Subparts) of NSPS, Appendix F of NSPS, consent orders, or permits.

- Failure to Perform Required Audits. Section 9 VAC 5-50-410 of the Regulations incorporates by reference those subparts of 40 CFR Part 60 that incorporate audit requirements. In addition, § 9 VAC 5-40-1780(D) of the Regulations requires audits be performed by those facilities subject to Rule 4-13. Add \$1,500 to base amount in Worksheet. Two weeks will be allotted to the source to perform the audit. An additional \$200 per day will be charged for every day past the two week grace period. The civil charge under this category is calculated on a monthly basis, i.e., if the source must conduct a quarterly audit on three individual monitoring systems (excluding redundant back-up systems) and two were late, the civil charge would be \$3,000 with \$400 added each day after the ten-day grace period.
- Excessive Downtime on CEM. Section 9 VAC 5-50-410 of the Regulations incorporates by reference those subparts of 40 CFR Part 60 which include monitor availability requirements. In addition, § 9 VAC 5-40-1780(D) of the Regulations establishes monitor availability requirements for those facilities subject to Rule 4-13. Add \$2,000 to base amount on Worksheet for each monitoring system which does not meet the required monitor availability.

d. Are there toxic pollutant violations? This civil charge is assessed to emissions and monitoring violations involving a toxic pollutant. A toxic pollutant is defined in the Regulations as "any air pollutant for which no ambient air quality standard has been established." The staff is reminded that, for "existing sources," the Regulations establish significant ambient air concentration "guidelines" for toxic pollutants. If the existing source is found to be in excess of a guideline, the Regulations provide specific alternatives to address the exceedence. Therefore, an existing source is not considered to be a toxic pollutant violator until or unless DEQ has notified it of the exceedence and the source has failed to respond as specified in § 9 VAC 5-40-220.

Where a violation involves exceedence of a permit limit for a toxic pollutant, a charge should be assessed for both the emission violation and the toxic pollutant.

#### 5. Sensitivity of the Environment

This category focuses on the geographic location of the violation. Civil charges associated with this category are dependent on the nonattainment/attainment status or the PSD area classification and the classification of the violation. The sensitivity of the environment charge applies only to emission standards violations or to work practice or technology standards that serve as emission standards. When a violation occurs in a nonattainment area, the nonattainment charge applies only for violations involving pollutants or pollutant precursors for which the area is designated nonattainment. The description of the nonattainment areas and the PSD classifications are provided in the Regulations.

#### 6. Preliminary Civil Charge Subtotal

Sum all assessed charges in items 1 through 5.

#### Length of Time Factor

The longer a violation continues uncorrected, the greater the potential for harm to air quality. The Worksheet addresses this consideration in the category labeled "Length of Time Factor." The charge is developed by multiplying the number of days the violation occurred by 0.274. The result of this calculation is the Percent (%) Increase Factor. This factor must be divided by 100 to obtain the decimal expression, which is then multiplied with the preliminary subtotal to obtain the additional civil charge. The time span (expressed in days) used to calculate the charge begins on the day, based on documented evidence, the violation began for emission violations and the day of discovery of the violation for administrative violations. The time span ends on the date the source agrees in principle to a set of corrective actions designed to achieve compliance with the regulatory requirement for which the charge(s) was (were) assessed. For

situations of construction without a permit, the time span ends when the source submits a complete permit application for the affected process or equipment.

The following is an example of how to calculate a "length of time" civil charge:

- Calculate the length of time in days that the noncompliance existed. For example, 200 days elapsed between the beginning day of the noncompliance and the date the source agreed in principle to a set of corrective actions necessary to return to a state of compliance.
- Multiply the number of days by 0.274. Take 200 and multiply it by 0.274 to get 54.8. You can round this up to whole numbers to get 55.
- Divide this number by 100. This yields the Length of Time Factor. 55 divided by 100 yields 0.55.
- Multiply the base amount of the civil charge calculated on the Worksheet by the Length of Time Factor. Assume for this example that the base amount is \$1,000. 1,000 times 0.55 yields \$550.
- Enter the calculated amount into the entry block in item 7 on the Worksheet.

#### 8. Compliance History

The staff considers prior enforcement activities of the Air Law and Regulations in adjusting the civil charge based on the source's compliance history. Prior enforcement activities include any act or omission resulting in an enforcement response, as described in Chapter Two of this Manual. Warning Letters and NOVs that are not pursued would not be considered. This factor may be used to increase — but not decrease — a charge. Evidence of an excellent compliance history cannot be used as justification for reducing a civil charge on a current and unrelated violation. See Table 2.

#### 9. Extended Compliance

"Extended compliance" means extending the date by which the source is required to comply with any compliance date(s). The extended compliance civil charge is intended to apply to situations where the proposed schedule is based upon limitations such as a reasonable construction or equipment delivery schedule. Compliance delays proposed for monetary considerations or for the sake of convenience (i.e., to coordinate equipment installation with the routine annual maintenance shutdown) should only be accepted if the source demonstrates that the associated financial burden is beyond their "ability to pay."

If the source is proposing a schedule that will extend the compliance schedule, a calculated charge for such an extension is appropriate. The consent order shall include a schedule detailing important interim dates and the final date by which compliance will be achieved.

Federal Regulations list specific procedures for processing *Delayed Compliance Orders*. EPA maintains the authority to disapprove any DEQ approved Delayed Compliance Orders subject to the public participation guidelines described in 40 CFR §65.04. All proposed Delayed Compliance Orders shall be transmitted to the Central Office for review prior to entering into a consent order with that source.

If the source is proposing a schedule that will extend a compliance date, there will be a commensurate impact on air quality. A calculated charge for such an extension is appropriate; consequently, when a consent order includes a provision for such a schedule, the amount calculated for items 1-7 should be increased according to length of the extended compliance. Calculate the length of the extension, in months, and multiply this number by 2.78. This gives the percent increase due to the extended compliance. For compliance schedules of less than one month (30 days), calculation of an extended compliance charge is not necessary. Partial months (as determined on 30-day increments) will be assessed as a full month when calculating the extended compliance charge.

The following is an example of how to calculate an "extended compliance" civil charge:

- Calculate the length of time, in months (on a 30-day basis), compliance will be extended by execution of the order. For example, the schedule described in the consent order indicates a six-month (180 day) delay before compliance will be achieved.
- Multiply the number of months by 2.78. Take 6 and multiply it by 2.78 to get 16.68. You can round this up to whole numbers to get 17.
- Divide this number by 100. This yields the Extended Compliance Factor. 17 divided by 100 yields 0.17.
- Multiply the base amount of the civil charge calculated on the Worksheet by the Extended Compliance Factor. Continuing with this example, the base amount is \$1,000. \$1,000 times 0.17 yields \$170.
- Write the calculated charge into the entry block in item 9 on the Worksheet.

#### 10. Economic Benefit of Noncompliance

Section 113(e) of the federal Clean Air Act states, in part, that in assessing civil penalties the "economic benefit of noncompliance" shall be taken into consideration. The reason for applying this factor in a civil charge is to ensure the charge acts as a deterrent to noncompliance. By developing a civil charge assessment structure that incorporates this deterrent effect, an enforcement action removes any economic gain that a source accrues by avoiding or delaying costs necessary to achieve compliance.

The existence of a significant economic benefit gained from noncompliance must be evaluated on a case-by-case basis. The inspector must use professional judgement when making the preliminary determination that an economic benefit exists. When there exists an indication of

an economic benefit based on delayed or avoided costs, the staff shall estimate the value of the economic benefit and include this amount in the proposed civil charge.

#### a. Delayed Versus Avoided Costs

A necessary first step when making a preliminary determination of an economic benefit is understanding the costs avoided or delayed through noncompliance. A delayed cost is an expenditure that, through current noncompliance, can be put off to sometime in the future. An avoided cost is an expenditure that will not be made due to noncompliance.

- Examples of delayed costs include, but are not limited to: failure to install equipment needed to meet emission control standards; failure to effect process changes needed to reduce pollution; failure to test where the test still must be performed; and failure to install required monitoring equipment.
- Examples of avoided costs include, but are not limited to: disconnecting or failing to properly operate and maintain existing pollution control equipment; failure to employ a sufficient number of staff; failure to adequately train staff; failure to establish or follow precautionary methods required by regulations or permits; removal of pollution equipment resulting in process, operational or maintenance savings; disconnecting or failing to properly operate and maintain required monitoring equipment; and operation and maintenance of equipment that the violator failed to install.

#### b. Adjustments to the Calculated Economic Benefit

The inspector may have insight into conditions that affect the amount of the calculated economic benefit. The regional staff should describe:

- Conditions that indicate economic benefit is insignificant. The significance of an economic benefit must be determined on a case-by-case basis. The relative insignificance of the economic benefit depends on the impact it will have on the violation and the size of civil charges exclusive of the economic benefit calculation.
- Compelling public concern. Compelling public concern as a basis for mitigating the economic benefit amount may be significant when the amount of the economic benefit calculated may result in an extreme financial burden and there is important public interest in retaining the source. Public concern may be a factor where the violators are public entities.
- Existing administrative action or order. Where a source is in the process of settling a previous civil charge it may be appropriate to consider adjustments to the economic benefit calculation.

#### 11. Charge Adjustment Calculation

In order to promote equity in the process of assessing a civil charge, the process for developing a civil charge must be flexible enough to account for factors that are unique to each source. The incorporation of case-by-case mitigating factors, however, must be done in a manner that does not sacrifice consistency. This is accomplished by establishing "adjustment factors" that provide a basis for distinguishing among individual enforcement actions. For the purposes of civil charge adjustment, these factors are: degree of willfulness or negligence, degree of cooperation, and environmental damage.

The calculated charge for the Worksheet excluding the economic benefit calculation can be reduced by up to 30% for cooperation and a good faith effort to comply with regulatory requirements or permit conditions. These good faith efforts could come in the form of prompt reporting of noncompliance, prompt correction of environmental problems, and cooperation during pre-filing investigation. The degree of cooperation is the only basis for reducing a civil charge. The degree of willfulness or negligence and environmental damage are only applicable in this context as reasons for increasing the civil charge.

- Civil Charge Disclosure It is the DEQ's approach to be totally open with the source and the public regarding the worksheet and the basis for the civil charge.
- Additional Civil Charge Reduction The total civil charge may be reduced by more than 30% if extraordinary circumstances exist. Additional reductions must be evaluated by OEC for consistency and approved by the Regional Compliance and Enforcement Manager.

The Worksheet has a category entitled "Charge Adjustment Calculation," which is used to calculate the adjustment to be applied to the total charge. This category should contain the amount of any charge reduction and the charge adjustment factor. The civil charge adjustment factor shall be applied to the total charge after the economic benefit amount has been subtracted. The final Charge Adjustment is then subtracted from the total calculated civil charge to obtain the final assessed civil charge.

#### C. ABILITY TO PAY A CIVIL CHARGE

The overriding mitigating factor in adjusting civil charges and economic benefit is the source's ability to pay. DEQ must consider reducing the amount assessed on a violation when that amount is beyond the violator's means.

Table 1.

OPACITY AND EMISSION LIMIT VIOLATIONS

MONETARY CIVIL CHARGE MATRIX

% over allowed opacity limitation	SOURCE CLASSIFICATION				
	A	SM	В		
10	\$200	\$100	\$50		
20	300	150	100		
30	400	250	150		
40	500	350	200		
50	600	450	250		
60	700	550	300		
70	800	650	350		
80	900	750	400		
90	1,000	850	450		
100	1,100	950	500		
200	2,000	1,500	1,000		
300	5,000	3,000	1,500		
400	10,000	6,000	2,000		

#### **OPACITY VIOLATION EXAMPLE:**

An SM source is allowed 5% opacity for a baghouse controlling a point source. Method 9 shows 40% opacity. Calculate the assessment for the opacity violation.

- 1. Subtract the allowed limitation (5%) from the results from Method 9 (40%) to obtain the % OVER. In this case, the resultant is 35%.
- 2. Locate the % OVER in Table 1. above. The table reports percentages in steps of 10%. Read 30% (\$250) and 40% (\$350) and record these same numbers.

$$\frac{35-30}{40-30}x(350-250) = $300 Civil Charge$$

3. Interpolate to determine the charge for the opacity violation.

Table 2.

COMPLIANCE HISTORY (previous 36 months)

Number of Violations	Charge Factor
Second Violation	.50
Third Violation	1.00
Over Third Violation	(N-3)+1.00

#### TO CALCULATE A COMPLIANCE HISTORY CHARGE

- 1. Review the sources compliance history to determine if any additional violations were noted during the previous 36 months. For example, the source had a previous NOV issued 14 months prior to the currently pending enforcement action (do not include additional violations which were discovered as part of the same inspection).
- 2. Look up on the above table and determine the appropriate factor to adjust the civil charge. The current enforcement action represents the second violation in 36 months so the Charge Factor is 0.50 (or 50%).
- 3. Multiply the base amount of the civil charge calculated on the Worksheet by the Charge Factor. From the example above the base charge is \$1,000. Multiplying \$1,000 by 0.5 yields \$500.
- 4. Write the calculated amount of the civil charge into the entry block in item "8. Compliance History" on the Civil Charge Calculation Worksheet.

Civil Charge Calculation Worksheet Revised 12/98				Violations			
			Serious	Moderate	Marginal		
1: Permit Violation - Multiply by 211 PSD/NESB	APs/or		Page Service		Application (%)		
a. Is a permit required? (if No, go to 1.c below)	Yes	No	\$6,000	\$2,000	\$1,000		
b. Is the source operating without the required permit?	Yes	No	\$4,000	\$2,000	\$1,000		
c. Is a permit/regulation violated? (excluding 4 below)	Yes	No	\$2,000	\$1,000	\$600		
p main-tristra United in Table 1				i::::::	na en agranda No en agranda		
a. Is a Consent Order condition violated?	Yes	No	\$4,000	\$2,000	\$1,000		
The state of the s	SOL AND PROPERTY	26.276 1.2M					
a. Is equipment installed? (If no, assess charge, go to 4)	Yes	No	\$10,000	\$6,000	\$2,000 <sup>-</sup>		
b. If installed, is equipment operating properly?	Yes	No	\$10,000	\$6,000	\$2,000		
s, 25minstonteende van room		nest upper	10 p				
a. Visible Emissions	Yes	No	See T	able 1			
b. Emission Standards or Limits	Yes	No	See T	able 1			
c. CEM Violations	Yes	No	See T	able 2			
d. Toxic Pollutant	Yes	No	\$2,000	\$1,000	\$600		

a. Nonattainment area		\$4,000	\$2,000	\$1,000
b. Class I PSD area		\$2,000	\$1,000	\$600
c. Class II and III PSD ar	ea	\$1,000	\$400	\$200
. Adding St. Agricus	wind C			
a fusikar tana terda		See T	able 3	
in divine Highery		See T	able 4	
second multiple		See T	able 5	
u. Espainate tenom	entral extraction	BEN I	Model	
Charle tables men von	32.1607.7827.160an - 1970	Factor =		

#### II. THE WASTE PROGRAM

DEQ negotiates with parties for the payment of civil charges for past violations in an order issued by the Waste Management Board pursuant to the Waste Management Act, Va. Code § 10.1-1455. The maximum limit for a civil charge is \$25,000 for each violation, with each day being a separate violation.

#### A. <u>CONSENT ORDERS WITHOUT CIVIL CHARGES</u>

As an initial matter, the enforcement staff determines whether the alleged violation is of a nature to warrant a civil charge. The following basic criteria should be met in all such cases without civil charges: there has been no or minimal environmental impact, the facility is not a chronic facility, and the facility is making a good-faith effort to comply. The emphasis in all cases, but particularly in cases without civil charges, should be on prompt and appropriate injunctive relief. No civil charge or economic benefit need be computed for cases qualifying under this section.

#### B. CONSENT ORDERS WITH CIVIL CHARGES

Civil charges are calculated for all waste programs using the Waste Civil Charge Worksheet, which is found at the end of the Waste Program section. A separate Worksheet is completed for each alleged violation. Multiple violations that arise out of a single act or omission may be consolidated into a single violation for purposes of calculating civil charges. In no case may the total civil charge for a single violation exceed the statutory maximum of \$25,000 per day of violation.

In calculating the appropriate civil charge, enforcement staff addresses the following seven components which are discussed in greater detail below.

- Gravity-based component, which is calculated before any adjustments are made
- "Multi-day" component, as appropriate, to account for continuing violations
- The facility's degree of culpability
- The facility's compliance history
- Economic benefit of noncompliance, if appropriate
- An adjustment component, to include cooperativeness/quick settlement, promptness of injunctive relief/good faith effort to comply, and strategic considerations
- Ability to pay

#### C. GRAVITY-BASED COMPONENT

The gravity-based component is assessed based on the violation's "potential for harm" and the extent to which the violation deviates from the regulatory requirement, which is facility's status as SNC or SV.

#### 1. Potential for Harm

There are three categories of "potential for harm" into which a violation may be placed which are "Serious," "Moderate," and "Marginal." These categories are used throughout the Worksheet for each component.

- SERIOUS: (1) The violation has caused actual exposure or presents a *substantial risk* of exposure of humans or other environmental receptors to waste or constituents; and/or (2) the actions have or may have a *substantial adverse effect* on statutory or regulatory purposes or procedures for implementing the regulatory program.
- MODERATE: (1) The violation presents or may present a significant risk of exposure of humans or other environmental receptors to waste or constituents; and/or (2) the actions have or may have a significant adverse effect on statutory or regulatory purposes or procedures for implementing the regulatory program.
- MARGINAL: (1) The violation presents or may present a relatively low risk of exposure of humans or other environmental receptors to waste or constituents; and/or (2) the actions have or may have a small adverse effect on statutory or regulatory purposes or procedures for implementing the regulatory program.

A facility is placed into one of these categories based on: (1) the extent of risk of exposure of humans or other environmental receptors, and/or (2) the effect on the regulatory program.

- a. Risk of Exposure. Risk of exposure involves both the probability of exposure and potential consequences that may result from exposure.
  - Probability of Exposure. Where a violation involves the actual management of waste, a civil charge should reflect the probability that the violation could have or has resulted in a release of waste or constituents or could have or has resulted in a condition that creates a threat of exposure to waste or waste constituents. The likelihood of a release is determined based on whether the integrity and/or stability of the waste management unit is likely to have been compromised. Some factors to consider in making this determination are: (1) evidence of release (e.g., existing soil or groundwater contamination), (2) evidence of waste mismanagement (e.g., rusting drums), and (3) adequacy of provisions for detecting and preventing a release (e.g., monitoring equipment and inspection

procedures). A larger civil charge is presumptively appropriate where the violation significantly impairs the ability of the waste management system to prevent and/or detect releases of waste and constituents.

• Potential Consequences. In calculating risk of exposure, enforcement personnel weigh the harm that would result if the waste or constituents were in fact released to the environment. Some factors to consider in making this determination are: (1) quantity and toxicity of wastes (potentially) released; (2) likelihood or fact of transport by way of environmental media (e.g., air and groundwater); and (3) existence, size, and proximity of receptor populations (e.g., local residents, fish and wildlife, including threatened or endangered species) and sensitive environmental media (e.g., surface waters and aquifers).

In considering the risk of exposure, the emphasis is placed on the potential for harm posed by a violation rather than on whether harm actually occurred. The presence or absence of direct harm in a noncompliance situation is something over which the facility may have no control. Such facilities should not be rewarded with lower civil charges simply because the violations happened not to have resulted in actual harm.

- b. Effect on the regulatory program. There are some requirements of the Waste Program that, if violated, may not likely give rise directly or immediately to a significant risk of contamination. Nonetheless, all regulatory requirements are fundamental to the continued integrity of the regulatory program. Violations of such requirements may have serious implications and merit a substantial civil charge where the violation undermines the statutory or regulatory purposes or procedures for implementing the regulatory program. Examples of regulatory harm include, but are not limited to:
  - Failure to notify as a generator or transporter of hazardous waste and/or owner of a hazardous waste facility
  - Failure to comply with financial assurance requirements
  - Failure to submit a timely/adequate solid waste Part B application
  - Failure to respond to a formal information request
  - Operating without a permit or interim status
  - Failure to prepare or maintain a hazardous waste manifest
  - Failure to install or conduct adequate groundwater monitoring.
  - Certain failures to comply with record keeping that undermine DEQ's ability to determine compliance

#### 2. Extent of Deviation: SNC/SV Status

The extent to which the violation deviates from the regulatory requirement is the second factor considered in assessing the gravity-based component. For hazardous waste, the extent of deviation is based on the status of a facility as SNC or SV under the 1996 EPA Enforcement Response Policy. This determination will normally already have been made as part of the enforcement referral process.

For purposes of evaluating non-hazardous solid waste civil charges, violations that result in enforcement referral are SNC. Other violations that, by themselves, do not cause the referral are SV.

#### D. MULTI-DAY COMPONENT

This component is calculated by multiplying the number of days of continuing violations ("n") by the factor in the appropriate matrix cell. Use of a multi-day component beyond 180 days is discretionary. The "potential for harm" determination already made for calculation of the gravity-based component is used to select the appropriate cell on the Worksheet for this component. Use of a multi-day component is presumed for days 2 through 180 of all violations that caused a facility to be designated as a SNC. The multi-day component may be waived where good cause for waiver is documented in the ERP.

#### E. DEGREE OF CULPABILITY

Under this provision, the civil charge is increased if there is substantial evidence that the alleged violation was caused by the negligence of the facility or by a deliberate act of the facility. The "potential for harm" determination already made for calculation of the gravity-based component is used to select the appropriate cell on the Worksheet for this component.

For purposes of calculating the civil charge on the Worksheet, violations of Consent Orders are presumed to be the result of either a negligent or a deliberate act of the facility.

#### F. COMPLIANCE HISTORY

This provision increases the civil charge for repeat violations of the same requirement within at least the previous 36 months of the violation. In evaluating this factor, it should be remembered that the owner's history is at issue, not the facility's. Consequently, for example, if a facility with a history of noncompliance is purchased or taken over by a new owner with little or no such history, this factor component may not be assessed.

The "potential for harm" determination already made for calculation of the gravity-based component is also used to select the appropriate cell on the Worksheet for this component.

#### G. ECONOMIC BENEFIT OF NONCOMPLIANCE

This provision recovers the economic benefit of noncompliance derived from the violation. This factor may be calculated with the EPA computer model BEN. The calculation is made based on the Cumulative Subtotal arrived at on the Worksheet before adjustments, if any, are made.

The intent is to recoup the economic benefit of noncompliance in all cases. There are four general areas, however, where settling for less than the total civil charge amount for less than the economic benefit may be appropriate. The four exceptions are:

- The economic benefit component consists of an insignificant amount (i.e., less than \$2500).
- There are compelling public concerns that would not be served by taking a case to trial.
- It is unlikely, based on the facts of the particular case as a whole, that DEQ will be able to recover the economic benefit in litigation.
- The facility has documented an inability to pay the total proposed civil charge.

#### F. ADJUSTMENT FACTORS

The civil charge Cumulative Subtotal – excluding the economic benefit of noncompliance calculation – may be reduced by up to 30% based on several factors where there are clearly documented case-specific facts that support the adjustment. Those factors include cooperativeness/quick settlement, promptness of injunctive response/good faith effort to comply, and strategic considerations. Any decision whether or not to apply any adjustments is within the sole discretion of the appropriate DEQ management. Decisions regarding adjustment are not subject to administrative appeal or judicial review. The justification for applying an adjustment must be reasonable and documented in the ERP.

#### 1. Cooperativeness/Quick Settlement

An adjustment may be provided where the facility is cooperative in resolving the case in a timely and appropriate manner and it makes a good faith effort to settle the violations quickly.

#### 2. Promptness of Injunctive Response/Good Faith Effort to Comply

Good faith efforts to comply with regulatory requirements or permit conditions could come in the form of prompt reporting of noncompliance or prompt correction of environmental problems. A reduction may be given to facilities that promptly initiate corrective actions in response to violations. Consideration should be given to institutional or legal limitations on corrective actions. For example, a municipality may be unable to institute corrective action

immediately because of funding procedures. Owners who agree to expedited corrective action schedules may qualify for this reduction. Also, the replacement of facility management who might have been unresponsive to violations, unbeknownst to facility owners, may be considered.

In evaluating this reduction factor, it is appropriate to consider the effectiveness and quality of DEQ notification, compliance assistance, and general customer service given to the facility following violations or identification of compliance problems.

#### 3. Strategic Considerations

Strategic considerations include litigation potential, the precedential value of the case, the size of the facility, problems of proof in the case, impacts or threat of impacts (or lack thereof) to human health or the environment, and probability of meaningful recovery of civil charges and/or costs.

#### H. ABILITY TO PAY

A reduction based on inability to pay may be considered in a case where the facility has demonstrated that a significant economic hardship would result from the full civil charge. The burden to demonstrate inability to pay rests on the facility. The EPA computer models ABEL, INDIPAY, or MUNIPAY may be used to evaluate ability to pay.

If a facility cannot pay the civil charge otherwise called for by this policy or would be prevented from carrying out essential remedial measures by paying the full amount, the following options should be considered in the order presented:

- Installment payment plan with interest
- Delayed payment schedule with interest
- Reduction based on ability to pay modeling

#### WASTE CIVIL CHARGE WORKSHEET

The state of the s			Potential	For Harm	
Violation No.			Serious	Moderate	Marginal
Gravity-based component	7,	Char			ABOUTHUR SOUND
a. Does violation meet SNC criteria?	Y	N	20,000	8,000	1,500
b. Does violation meet SV criteria?	Y	N	11,000	3,000	100
c. Gravity-based subtotal				1420 A - 5 T - 1	
2. Multi-day component (n = number of days of continuing violation)				r initerriji 	1647-0
a. Does the multi-day component apply?  If no, go to #3.	Y	N		estrations - Larlie Larlie - Frank Latinophie VII (1987)	
b. Does violation meet SNC criteria?	Y	N	1,000 х п	400 x n	100 x n
c. Does violation meet SV criteria?	Y	N	550 x n	150 х п	100 х п
d. Multi-day subtotal					
3: Degree of culpability.					
a. Is there substantial evidence of Willfulness or negligence?	Y	N	5,000	3,000	1,500
b. Culpability subtotal	ell record				
4. Compliance history.	diff - 1			1.41	
a. For an SNC, has this violation occurred before within the past 36 months?	Y	N	5,000	3,000	1,500
b. For an SV, has this violation occurred Before within the past 36 months?	Y	N	4,000	2,000	400
c. Compliance history subtotal	perti.			nangan meta	
5. Cumulative Subtotal (lines 1c+2d+3b+4c)		J. Pri			
6. Economic benefit of noncompliance					
TOTAL					

#### III. THE WATER PROGRAM

The State Water Control Law ("Water Law") at Code § 62.1-44.32 provides for the inclusion of negotiated civil charges in Consent Orders with a facility for violations of the Water Law and Regulations. The maximum limit for a civil charge is \$25,000 for each violation, with each day being a separate violation.

The procedures in Part B of this section address the calculation of civil charges under the Water Law and Regulations for settlement purposes in VPDES, VWPP, VPA, GWPP, AST, and UST cases. Part C of this section addresses the calculation of civil charges for confined animal feeding operations ("CAFOs"). Under Code § 62.1-44.17:1(J), permittees in violation of CAFO general permits are subject to a maximum of \$2,500. Part D of this section addresses calculation of civil charges for oil spills, which have a unique civil charge scheme under § 62.1-44.34:20 of up to \$100 per gallon of petroleum released to the environment.

#### A. CONSENT ORDERS WITHOUT CIVIL CHARGES

Consent Orders can be executed without civil charges when in DEQ's judgment it is in the best interest of public health or the environment, or both. The following basic criteria should be met in all cases without civil charges: there has been no or minimal environmental impact, the facility is not a chronic facility, and the facility is making a good-faith effort to comply. The emphasis in all cases, but particularly in cases without civil charges, should be on prompt and appropriate injunctive relief. No civil charge or economic benefit need be computed for cases qualifying under this section. Assuming the basic criteria are met, the following types of cases may qualify. This list is illustrative and not intended to be exhaustive.

- Municipal VPDES (major or minor) upgrade or expansion or collection system correction delayed due to the inability to secure funding.
- Where interim limits are needed pending connection to municipal wastewater treatment system or a larger regional wastewater treatment system.
- Minor VPDES permittees, such as trailer courts operating lagoons or other antiquated systems that will eventually shut down or be connected to a sewer system.
- Violations resulting from unavoidable or unforeseeable events, and also of short duration with little or no environmental impact, but not including violations of reporting requirements.

#### B. CONSENT ORDERS WITH CIVIL CHARGES

Civil charges are generally appropriate in Consent Orders when one or more of the following criteria are met: failure to respond to technical assistance efforts, violation of enforcement orders without mitigating circumstances, violations that are avoidable, noncompliance that is continuing or likely to recur, knowing violations, or violations resulting in environmental damage.

Before calculating the civil charge, the statutory maximum civil charge (\$25,000 per violation per day in most cases) is estimated to determine the maximum liability of the facility. This can be useful information in negotiations, as facilities should be mindful of the liability they might face in a judicial proceeding.

To calculate the appropriate civil charge in an administrative settlement:

- Determine the civil charge per violation, generally on a "per month" of violation basis for effluent limits and failure to report and on a "per event" basis for violations such as unpermitted discharges or failure to implement proper operations and maintenance procedures;
- Estimate the cost of injunctive remedies needed to resolve the case;
- Determine economic benefit; and
- Then use these values to determine the baseline civil charge.

The baseline civil charge may be reduced based on the following factors: size and type of facility, history of recalcitrance, promptness of injunctive response, quick settlement adjustment, litigation considerations, and ability to pay. As noted above, the final recommended civil charge cannot exceed the statutory maximum amount.

#### 1. Charge Per Violation/Gravity Component

When civil charges are warranted, the civil charge is determined using the Water Civil Charge Worksheet, which is found at the end of Section B. Effluent limitation charges and other ongoing violations are added on a monthly basis. "Per event" charges are added on a one-time basis. These charges would generally be capped at \$50,000 per month.

The amounts on the Water Civil Charge Worksheet include a gravity component that is measured as "Serious," "Moderate" or "Marginal" and takes environmental impact and the severity of the alleged violation into consideration. Environmental impact considerations evaluate the site-specific occurrence of or likelihood of impacts or damage to human health or the environment. Severity considerations examine whether the violations or pattern of violations at issue are those that are fundamental to the continued integrity of the regulatory program. Violations of such requirements may have serious implications and merit substantial civil charges where the violation undermines the statutory or regulatory purposes or procedures for implementing the regulatory program.

The three categories are defined as follows:

• SERIOUS: (1) The violation has impacted or presents an *imminent and substantial* risk of impacting human health and/or the environment such that serious damage has resulted or is likely to result, and/or (2) the actions have or may have a substantial

adverse effect on statutory or regulatory purposes or procedures for implementing the regulatory program. Examples include fish kills, effluent violations resulting in loss of beneficial uses, failure to report an unpermitted discharge, or chronic refusal to apply for a permit or perform TMP.

- MODERATE: (1) The violation presents or may present some risk of impacting the environment, but those impacts would be minimal and correctable in a reasonable period of time, and/or (2) the actions have or may have a noticeable adverse effect on statutory or regulatory purposes or procedures for implementing the regulatory program. Examples include unpermitted discharges resulting in identifiable sedimentation into state waters, failure to observe BMPs in VWPP permits, preventable accidents, or chronic late submission of monitoring reports or permit application materials.
- MARGINAL: (1) The violation presents little or no risk of environmental impact, and/or (2) the actions have or may have a little or no adverse effect on statutory or regulatory purposes or procedures for implementing the regulatory program. Examples include, but are not limited to: an improperly completed DMR, minor exceedances (i.e., less than or equal to 10% of the allowable limit) in land application with no impact to ground or surface water.

#### 2. Cost of Injunctive Remedy

The cost of the injunctive remedy necessary to bring the facility back into compliance should be estimated for later use in the calculation.

#### 3. Economic Benefit

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The removal of the economic benefit of noncompliance serves to place the facility in the same position it would have been if compliance had been achieved on time. Both deterrence and fairness require that the civil charge include, as appropriate and practicable, an additional amount to ensure that the facility is economically worse off than if it had obeyed the law.

Facilities that violate the Water Law may have obtained an economic benefit as a result of delayed or completely avoided pollution control expenditures during the period of noncompliance. Commonly delayed or avoided expenditures include, but are not limited to:

- Monitoring and reporting (including costs of the sampling and proper laboratory analysis)
- Capital equipment improvement or repairs, including engineering design, purchase, installation, and replacement
- Operation and maintenance expenses (e.g., labor, power, chemicals) and other annual expenses

One-time acquisitions (such as equipment or real estate purchases)

EPA's BEN model is a method for calculating economic benefit from delayed and avoided expenditures. Refer to the "BEN User's Manual" for specific information on the operation of BEN. If the economic benefit exceeds \$10,000, BEN should be used to calculate benefit. BEN uses thirteen data variables, of which eight contain default values. The five required variables are information about capital and non-capital costs, annual operation and maintenance costs, and the dates for the period of noncompliance. BEN allows a cooperative facility to provide actual financial data that may affect the civil charge calculation. For economic benefit calculations of less than \$10,000 or where the facility will not or cannot provide financial data in a timely manner, staff may make estimates based on available resources, including their best professional judgment.

#### 4. Baseline Civil Charge

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One of the main purposes of assessing a civil charge is to ensure significant economic benefit is not gained from failure to comply with the law and regulations. Thus, the baseline civil charge takes into consideration the gravity-based component (cost of the violations), the cost of injunctive relief (what the facility will have to pay to correct the problem), and the economic benefit from noncompliance.

The following steps are taken to determine the Baseline Civil Charge, as set forth on the Worksheet:

- The Gravity-based Component is calculated based on the civil charge assessed per violation and any aggravating factors.
- The Cost of Injunctive Relief (what the facility will have to pay to correct the violations) is estimated.
- These two numbers are added together to get the "out-of-the-pocket" cost of the violations, which is called the Violation/Cost Combined Total.
- The Violation/Cost Combined Total is then compared to the Economic Benefit of Noncompliance, which is determined using the BEN model.
  - If the Violation/Cost Combined Total is less than the Economic Benefit figure, the Economic Benefit number is used for further calculation.
  - If the Violation/Cost Combined Total is greater than the Economic Benefit figure, the Violation/Cost Combined Total is used for further calculation.
- Since the facility will be expending funds to correct the violations (i.e., cost of injunctive relief), that amount is subtracted from the last number calculated above. This number is called the Baseline Civil Charge. By subtracting the cost of injunctive relief, the Baseline Civil Charge number recognizes that, by expending these funds to

correct the violations, that portion of the economic benefit gained from not doing so earlier is substantially captured through payment of these expenses.

The total Baseline Civil Charge cannot exceed the total statutory maximum of \$25,000 per violation per day of violation.

#### Adjustments

1

The baseline civil charge may be reduced up to 30% based on several factors, including size and type of facility, history of recalcitrance, promptness of injunctive response, quick settlement adjustment, litigation considerations, and ability to pay. Any decision whether or not to apply any adjustments is within the sole discretion of the appropriate DEQ management and the State Water Control Board, when it is in session. Decisions regarding adjustment are not subject to administrative appeal or judicial review. The justification for applying an adjustment must be reasonable and documented in the ERP.

- a. <u>Size and type of facility/owner.</u> Reductions are appropriate for small facilities. Such a reduction, however, may not be appropriate for a small facility owned by a large corporation. Facilities providing a critical community service (e.g., municipal plants, hospitals and schools) are appropriate for this reduction.
- b. <u>History of compliance.</u> A reduction is appropriate if the owner's history of recalcitrance is limited or nonexistent. In evaluating this factor, it should be remembered that the owner's history is at issue, not the facility's. Consequently, for example, if a facility with a long history of recalcitrance is purchased or taken over by a new owner with little or no history or recalcitrance, a reduction for this factor may be justified.
- c. <u>Cooperativeness/quick settlement.</u> A reduction may be given to a facility that makes good faith efforts to settle the alleged violations quickly.
- d. Promptness of injunctive response/good faith effort to comply. Good faith efforts to comply with regulatory requirements or permit conditions could come in the form of prompt reporting of noncompliance or prompt correction of environmental problems. A reduction may be given to facilities that promptly initiate corrective actions in response to violations. Consideration should be given to institutional or legal limitations on corrective actions: for example, a municipality may be unable to institute corrective action immediately because of funding procedures. Owners who agree to expedited corrective action schedules may also qualify for this reduction. Also the replacement of facility management who might have been unresponsive to violations, unbeknownst to facility owners, may be considered.

In evaluating this reduction factor, it is appropriate to consider the effectiveness and quality of DEQ notification, compliance assistance, and general customer service given to the facility following violations or even identification of compliance problems.

- e. Ability to pay. A reduction based on inability to pay may be considered in a case where the facility has demonstrated that a significant economic hardship would result from the full civil charge. Any facility that qualifies under the ABEL procedure will receive the maximum adjustment for this factor.
- f. <u>Strategic considerations.</u> Strategic considerations include litigation potential, the precedential value of the case, problems of proof in the case, impacts or threat of impacts (or lack thereof) to human health or the environment, and probability of meaningful recovery of civil penalties and/or costs.

#### 6. Final Recommended Civil Charge

The Baseline Civil Charge minus the adjustments from section five results in the Final Recommended Civil Charge. The ERP must demonstrate the justifications for these calculations and contain approvals from appropriate DEQ management before proceeding to final negotiations with the facility to settle the case. In the event that facts are gleaned during the negotiations that would prompt further adjustment of the Final Recommended Civil Charge, the ERP must be amended accordingly. Clearly documented, case-specific facts may justify adjustment of the Final Recommended Civil Charge for settlement purposes.

#### WATER CIVIL CHARGE WORKSHEET

E. (er vilva) rei (en in ordina)		Serious	Moderate	Marginal		
a. Violations and Frequency  per MONTH unless noted	7	SS x occurrences	\$\$ x occurrences	\$\$ x occurrences	SUBTOTAL	
Effluent Limits	Y	N	1K x	500 x	200 x	
Operational Deficiencies	Y	N	1 <b>K</b> x	500 x	200 x	
Monitoring/Submissions	Y	N	lKx	500 x	200 x	
Bypasses/ Overflows per day	Y	N	500 x	300 x	100 x	
Spills/Unpermitted Discharge/Withdrawal per event	Y	N	10K x	5K x	1K x	12
Compliance/Construction/Payment Schedules	Y	N	1K x	500 x	200 x	
No Permit/ODCP	Y	N	2K x	iK x	500 x	
Failure to Report per event, per month	Y	N	10K x	5K x	1K x	
					Subtotal #1a	
b. Aggravating Factors as Multipliers		471A				
Major Facility?	Y	N	Subtotal #1a x .2			
Consent/Judicial Order Violations?	Y	N	Subtotal #la x .5			
Deliberate Act?	Y	N	Subtotal #1a x .5		p	
AV.					Subtotal #1b	
GRAVITY BASED COMPONENT TOTAL (A	dd S	ubt	otal #1a and Subtotal #	<b>#1b)</b>	TOTAL#1	
Cost of Injunctive Remedy estimated 1997					TOTAL #2	
. Violation/Cost Combined Total						
Add TOTAL #1 and TOTAL	#2				TOTAL #3	
Economic Benefit of Noncompliance calculate					TOTAL #4	

5. Baseline Civ	vil Charge	And the same of the same	in entropy of the	SECURITY SEC	The But No. 10 Constitution of the Constitutio	
IfTO	TAL #3 (Viol./		han TOTAL #4 (Econ. ben.), #5a.		SUBTOTAL #5a	
		cost) is LESS than To SUBTOTAL #5a	OTAL #4 (Econ. ben.),			
BASELINE CI	VIL CHARG		TOTAL #2 (cost inj.) from TO ecord as TOTAL #5)	TAL #5a,	TOTAL #5	
6. Adjustments	circle all whic	h apply	er programme and the control of the	rocar karyndary http://www.is-arabu	entral service of the	
Size/Type of Facility Owner	History of Complianc	Cooperativeness/ Quick Settlement	Promptness of Injunctive Response/Good Faith Effort to Comply	Ability to Pay	Strategic Consideration	ons
	Maximum decre	ase 30% of Total #5			TOTAL #6	
7. Final Recom	mended Civil C	Charge	د تاریخی در در دارد در د			
TOTAL						

#### C. CAFO CONSENT ORDERS WITH CIVIL CHARGES

Under Code § 62.1-44.17:1(J), permittees in violation of CAFO general permits are subject to a maximum civil charge of \$2500.

Using the CAFO Civil Charge Worksheet, which follows Section C, staff assess appropriate civil charges on a per settlement action basis. Aggravating factors, including threats to human health and safety, environmental damage, consent order or judicial decree violation or any evidence of deliberate acts or omissions are then assessed to determine the Baseline Civil Charge.

Thereafter, an adjustment of up to 30% may be taken based on the following factors: size and type of facility owner; history of compliance; cooperativeness/quick settlement; promptness of injunctive response/good faith effort to comply; ability to pay; and strategic considerations. These adjustment factors are discussed in the previous section. Decisions regarding adjustment are not subject to administrative appeal or judicial review. The justification for applying an adjustment must be reasonable and documented in the ERP.

The Baseline Civil Charge minus adjustments results in the Final Recommended Civil Charge. In the event that facts are gleaned during the negotiations that would prompt further adjustment of the Final Recommended Civil Charge, the ERP must be amended accordingly. Clearly documented, case-specific facts may justify adjustment of the Final Recommended Civil Charge for settlement purposes. In no event may the final recommended civil charge for CAFO general permit violations exceed \$2500. However, onsite violations not addressed under the CAFO section of the Water Law (e.g., such as discharges of pollutants to state waters without a permit) should be assessed separately using the general water civil charge procedures.

#### CAFO CIVIL CHARGE WORKSHEET

to at inspersion	en e	THE STATE OF THE S	01-81-21 		And the second s	
a. Violations count each violation per INSREC	SSS:	#of occurrences	Subtotal			
Failure to monitor soils, waste or groundwater			1,000		\$	
Failure to maintain records			500		\$	
Failure to calibrate equipment; on NMP, manufa	acturers or O&M manu	uals on site	500		\$	
Improper documentation of liner, seasonal h construction	igh water table, sitin	g, design and	500		\$	
Improperly precharged lagoon, insufficient freel	board		1000		\$	
Improper sludge removal, inadequate vegetative	cover, trees or brush	on berm	500		\$	
NMP Violations per incident: Maximum was crop condition, improper crop rotation, waste ap			1000		\$	
Maximum nutrient loading exceeded, eviden erosion, per incident	ce of breeched buff	ers, runoff or	1000		s	
Animal units exceeded			1000		s	
NMP not timely revised			1000		\$	
Other	E CONTRACTOR OF THE CONTRACTOR		500		\$	
		SU	BTOTALS	Control of the section of the section of	S	
b. Aggravating Factors as Multipliers multip	ly the Sabrotal 88 by 2	Sifany of the	following fac	tors apply (circle)		
Threat to Human Health or Safety	Environmental Damage	Consent/Judio	ial Order	Evidence of Delibe	rate Act or Omission	
	and the same of th				\$	
Promptness of Injunctive Response/Good Faith Effort to Comply	Size/Type of Facility Owner	History of Compliance	Ability to Pay	Cooperation/ Quick Settlement	Strategic Considerations	

#### D. OIL SPILL CONSENT ORDERS WITH CIVIL CHARGES

Oil spills are subject to a unique civil charge scheme under § 62.1-44.34:20 in which civil charges are to be calculated based upon the amount of petroleum released into the environment in violation of Code § 62.1-44.34:14 et seq., up to \$100 per gallon.

Using the Oil Spill Civil Charge Worksheet, which is found after this section, staff evaluate and assess a dollar value of from \$0 to \$100 for each of seven statutory factors, including: willfulness of violation; damage or injury to state waters or beneficial uses; history of noncompliance; actions undertaken in reporting, containing, and cleaning up the discharge; cost of containment and clean up; nature/degree of injury to health, welfare or property; and available technology to prevent, contain, reduce or eliminate the discharge.

The dollar value for each of the seven statutory factors is then added, and the total divided by seven to provide an average "per gallon" civil charge figure. This civil charge figure is then multiplied by the total number of gallons of petroleum released to the environment to determine the Baseline Civil Charge.

Thereafter, an adjustment of up to 30% may be made based on the following factors: size and type of facility owner; history of compliance; cooperativeness/quick settlement; promptness of injunctive response/good faith effort to comply; ability to pay; and strategic considerations. These adjustment factors are discussed in Section B above. Decisions regarding adjustment are not subject to administrative appeal or judicial review. The justification for applying an adjustment must be reasonable and documented in the ERP.

The Baseline Civil Charge minus adjustments results in the Final Recommended Civil Charge. In the event that facts are gleaned during the negotiations that would prompt further adjustment of the Final Recommended Civil Charge, the ERP must be amended accordingly. Clearly documented, case-specific facts may justify adjustment of the Final Recommended Civil Charge for settlement purposes.

#### OIL SPILL CIVIL CHARGE WORKSHEET

# Willfulness of Violations	S Amounts &
	S
his Damage/Injusy to State Waters of Impairment of Beneficial Use	<u> </u>
interparting and the second and the	\$
Sile Husin's Oli Non-Compliance - 1 and a Leading State of the same of the sam	
	s
(iv.) Action (in Repping (Contaming Opening Up the Discharge).	eranty correspond
The results of the re	s
vy Corror Containment and Clean Ups	TO THE STANCE OF
WA CORPOR CONCENTRATE CHARLES PRODUCE TO A STATE OF THE PRODUCE TO A S	S
vi. Nature/Degree of Injury to Health, Weltare and Property.	S
	2019 120 141 (1110) R
viii. Available Technology to Prevent/Contain/Reduce/Eliminate Discharges 14 of the second se	S
SUBTOTAL	\$
	The second secon
(Subtotal) ÷ 7 = + 7 = x (Gallons released to the environment) =	S
Promptness of Inj. Response Size/Type of History of Ability to Pay Cooperation Quick Good Faith Effort to Comply Facility Owner Compliance Settlement	Strategic Considerations
Good Faith Effort to Comply Pacinty Owner Compliance Schickment  TOTAL	s



## COMMONWEALTH of VIRGINIA

#### DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr. Secretary of Natural Resources PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deg.state.va.us

December 20, 2000

Dennis H. Treacy Director

Gerard Seeley, Jr. Piedmont Regional Director

Mr. Steve Jones Omega Protein Incorporated P.O. Box 175 Heathsville, Virginia 22473

RE:

Proposed Consent Order Omega Protein Incorporated VPDES VA0003867

Dear Mr. Jones:

Enclosed are two originals of the proposed Consent Special Order affecting Omega Protein Incorporated. If the Order is acceptable, please have the two <u>originals signed</u>, and return them to me no later than December 29, 2000. We will then give the proposed Order a 30-day public notice in the Northumberland Echo and Virginia Registrar. We anticipate asking the Board to approve this Order at its next Board meeting in March 2001.

If you have any questions, please call me at (804) 527-5093.

Sincerely

Frank E. Lupini

Enforcement Specialist, Sr.

Enclosure

CC:

John Barnes, w/ enclosure at 7393 Northumberland Hwy; Heathsville, Va.; 22473 Lyell Jett, w/ enclosure at Omega Protein P.O. Box 175; Heathsville, Va.; 22473

Omega Protein Incorporated File VA0003867, w/o enclosure

Denise Mosca KSO, w/ enclosure



## COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr. Secretary of Natural Resources PIEDMONT REGIONAL OFFICE 4949-A Cox Road

Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deq.state.va.us Dennis H. Treacy Director Gerard Seeley, Jr. Piedmont Regional Director

# STATE WATER CONTROL BOARD ENFORCEMENT ACTION SPECIAL ORDER BY CONSENT ISSUED TO OMEGA PROTEIN VPDES VA0003867

#### **SECTION A: Purpose**

This is a Consent Special Order issued under the authority of Va. Code §§ 10.1-1185 and 62.1-44.15(8a) and (8d), between the State Water Control Board and Omega Protein, for the purpose of resolving certain violations of environmental law and regulations.

#### **SECTION B: Definitions**

Unless the context clearly indicates otherwise, the following words and terms have the meaning assigned to them below:

- 1. "Va. Code" means the Code of Virginia (1950), as amended.
- 2. "Board" means the State Water Control Board, a permanent citizens' board of the Commonwealth of Virginia as described in Va. Code §§ 10.1-1184 and 62.1-44.7.
- 3. "Department" or "DEQ" means the Department of Environmental Quality, an agency of the Commonwealth of Virginia as described in Va. Code § 10.1-1183.
- 4. "Director" means the Director of the Department of Environmental Quality.
- 5. "Order" means this document, also known as a Consent Special Order.

- 6. "Omega Protein" means Omega Protein Incorporated, certified to do business in Virginia and its affiliates, partners, subsidiaries, and parents.
- 7. "Facility" means the Omega Protein Sewage Treatment Plant located in Reedville, Virginia.
- 8. "PRO" means the Piedmont Regional Office of DEQ, located in Glen Allen, Virginia.
- 9. "Permit" means VPDES permit No. VA0003867, which became effective December 17, 1997 and expires December 17, 2002.
- 10. "O&M" means operations and maintenance.

## SECTION C: Findings of Fact and Conclusions of Law

- Omega Protein owns and operates a wastewater treatment facility in Northumberland County, Virginia. This facility is the subject of VPDES permit VA0003867, which allows Omega Protein to discharge treated wastewater into Cockrell's Creek and the Chesapeake Bay in strict compliance with terms, limitations and requirements outlined in the permit.
- On April 28, 1999, DEQ executed a Consent Order with Omega for failing to report an unpermitted discharge. Omega paid a \$7,500 civil penalty and the Order was closed in March 2000. Since the Order has closed, DEQ has noted numerous violations of the State Water Control Law.
- 3. On April 26, 2000, DEQ issued NOV No. 00-03-PRO-001 to Omega citing them for an unpermitted discharge created by sandblasting a vessel in the creek without the proper BMPs in place. In addition, Omega was cited for failure to meet the reporting requirements in its permit by 1) not reporting an unusual discharge which occurred after an equipment failure on July 7, 1999, 2) late submittals of BMP reporting, 3) failure to submit quarterly progress reports, and 4) improper toxicity testing.
- 4. On August 1, 2000, DEQ issued NOV No. W2000-05-K-001 to Omega citing them for late submittal of a quarterly progress report and total suspended solids violations in May 2000.

## SECTION D: Agreement and Order

Accordingly, the Board, by virtue of the authority granted it in Va. Code § 62.1-44.15(8a) and (8d), orders Omega Protein, and Omega Protein agrees, to perform the actions described in Appendix A of this Order.

During the time that this Order is in effect, Omega Protein and DEQ agree that, until the VPDES permit is modified, compliance for TSS, BOD, and O&G will be determined at the sampling point for outfall 001. Omega further agrees to continue to monitor and report for TSS, BOD, and O&G at outfall 006. Results from the analysis at outfall 001 shall be included with the DMR submittal as a separate attachment.

In addition, the Board orders Omega Protein, and Omega Protein agrees, to pay a civil charge of \$18,600 within 30 days of the effective date of the Order in settlement of the violations cited in this Order. Payment shall be made by check payable to the "Treasurer of Virginia", delivered to:

Receipts Control
Department of Environmental Quality
Post Office Box 10150
Richmond, Virginia 23240

### SECTION E: Administrative Provisions

- 1. The Board may modify, rewrite, or amend the Order with the consent of Omega Protein, for good cause shown by Omega Protein, or on its own motion after notice and opportunity to be heard.
- 2. This Order only addresses and resolves those violations specifically identified herein. This Order shall not preclude the Board or the Director from taking any action authorized by law, including, but not limited to: (1) taking any action authorized by law regarding any additional, subsequent, or subsequently discovered violations; (2) seeking subsequent remediation of the facility as may be authorized by law; and/or (3) taking subsequent action to enforce the terms of this order. Nothing herein shall affect appropriate enforcement actions by other federal, state, or local regulatory authority, whether or not arising out of the same or similar facts.
- 3. For purposes of this Order and subsequent actions with respect to this Order, Omega Protein admits the jurisdictional allegations, factual findings, and conclusions of law contained herein.
- 4. Omega Protein consents to venue in the Circuit Court of the City of Richmond for any civil action taken to enforce the terms of this Order.
- 5. Omega Protein declares it has received fair and due process under the Administrative Process Act, Va. Code §§ 9-6.14:1 et seq., and the State Water Control Law and it waives the right to any hearing or other administrative proceeding authorized or required by law or regulation, and to any judicial review of any issue of fact or law contained herein. Nothing herein shall be construed as a waiver of the right to any administrative proceeding for, or to judicial review of, any action taken by the Board to enforce this Order.

- 6. Failure by Omega Protein to comply with any of the terms of this Order shall constitute a violation of an order of the Board. Nothing herein shall waive the initiation of appropriate enforcement actions or the issuance of additional orders as appropriate by the Board or the Director as a result of such violations. Nothing herein shall affect appropriate enforcement actions by any other federal, state, or local regulatory authority.
- 7. If any provision of this Order is found to be unenforceable for any reason, the remainder of the Order shall remain in full force and effect.
- 8. Omega Protein shall be responsible for failure to comply with any of the terms and conditions of this Order unless compliance is made impossible by earthquake, flood, other acts of God, war, strike, or such other occurrence. Omega Protein shall show that such circumstances were beyond its control and not due to a lack of good faith or diligence on its part. Omega Protein shall notify the DEQ Regional Director in writing when circumstances are anticipated to occur, are occurring, or have occurred that may delay compliance or cause noncompliance with any requirement of the Order. Such notice shall set forth:
  - a. the reasons for the delay or noncompliance;
  - b. the projected duration of any such delay or noncompliance;
  - c. the measures taken and to be taken to prevent or minimize such delay or noncompliance; and
  - d. the timetable by which such measures will be implemented and the date full compliance will be achieved.

Failure to so notify the Regional Director within 24 hours of learning of any condition above, which the parties intend to assert will result in the impossibility of compliance, shall constitute a waiver of any claim to inability to comply with a requirement of this Order.

- 9. This Order is binding on the parties hereto, their successors in interest, designees and assigns, jointly and severally.
- 10. This Order shall become effective upon execution by both the Director or his designee and Omega Protein. Notwithstanding the foregoing, Omega Protein agrees to be bound by any compliance date which precedes the effective date of this Order.
- 11. This Order shall continue in effect until the Director or Board terminates the Order in his or its sole discretion upon 30 days written notice to Omega Protein. Termination of this Order, or any obligation imposed in this Order, shall not operate to relieve Omega Protein from its obligation to comply with any statute,

		regulation, permit condition, or requirement otherwise applications	other order, certificate, certification, standard, or able.	
	12.	By its signature below, Omeg Order.	a Protein voluntarily agrees to the issuance of the	is
		36		
		And it is so ORDERED this	day of, 2001.	
			Dennis H. Treacy, Director Department of Environmental Quality	
Omega	a Protei	n voluntarily agrees to the issu	ance of this Order.	
			Ву:	
			Date:	
Comm	onweal	th of Virginia		
		=		
City/C	ounty c	f	-	
The fo	regoing	g document was signed and acl	knowledged before me this da	ay of
		, 2000, by	(name) , who is	
(t	itle)	of Omega Protein, or	n behalf of the Corporation.	
			Notary Public	
			•	
		My commission expires:		

#### APPENDIX A

#### Omega Protein shall:

- 1. Immediately upon issuance of this Order, develop and submit to PRO standard operating procedures to ensure that reporting violations do not reoccur at Omega Protein.
- 2. Within thirty days of the issuance of this Order, submit to the PRO a diagnostic evaluation (DE) of the Omega Protein wastewater treatment system. A state registered professional engineer must conduct the DE. The DE shall be used to determine if the facility, as built, can meet the NPDES permit limits at design flow. The State registered professional engineer shall submit a stamped letter to the Department certifying that the facility can or cannot meet permit limits at design flow as built.
- 3. If the DE indicates that construction of an upgrade is required for the facility to meet permit limits, then sixty days from the issuance of the Order, submit to the PRO a preliminary engineering report and an implementation schedule for the upgrade construction. The schedule, once approved by the PRO, shall become an enforceable part of this Order.



## COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr. Secretary of Natural Resources PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deq.state.va.us

Dennis H. Tree Direct Gerard Seeley, . Piedmont Regional Direct

December 29, 2000

Mr. Steve Jones Omega Protein Incorporated P.O. Box 175 Reedville, Virginia 22539

RE: Proposed Consent Order Omega Protein Incorporated VPDĚS VA0003867

Dear Mr. Jones:

Enclosed are two originals of the proposed Consent Special Order affecting Omega Protein Incorporated. If the Order is acceptable, please have the two originals signed, and return them to me no later than January 8, 2001. We will then give the proposed Order a 30-day public notice in the Northumberland Echo and Virginia Registrar. We anticipate asking the Board to approve this Order at its next Board meeting in March 2001.

If you have any questions, please call me at (804) 527-5093.

Sincerely

Frank E. Lupini

Enforcement Specialist, Sr.

**Enclosure** 

CC:

Denise Mosca KSO, w/ enclosure



## Memorandum

To:

DENISE MOSCA

CC:

STEVE JONES

From: LYELL JETT

Date:

01/11/01

Re:

QUARTERLY PROGRESS REPORT

1) WE COMPLETED OUR FISHING SEASON IN EARLY DECEMBER 2000.

2) AMMONIA SAMPLES WERE TAKEN AND REPORTED TO YOUR OFFICE IN DECEMBER FROM OUTFALL 006

3) CYANIDE SAMPLES WERE NOT TAKEN DURING THAT TIME BUT, WILL BE TAKEN WHEN FISHING RESUMES IN MAY 2001



## **FAX**

TO: DENISE MOSCA

FAX: 435-0485

FROM: Lyell Jett

PHONE:

DATE: /- //- 0 /

PAGES: 2

SUBJECT: 1/4 Ly Progress Report



## COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deq.state.va.us

Director

Gerard Seeley, Jr.

Piedmont Regional Director

Dennis H. Treacy

John Paul Woodley, Jr. Secretary of Natural Resources

Mr. Steve Jones, General Manager Omega Protein, Inc. P.O. Box 175 Reedville, Virginia 22539

2 2 2001

Re: Omega Protein, Inc., VPDES Permit No. VA0003867and VAR540298

Dear Mr. Jones:

Enclosed is a copy of the report on the Wastewater Facility Inspection conducted at Omega Protein, Inc. on November 1, 2000. Please review the report carefully, and provide a written response addressing the compliance recommendation presented on page five of this report to this office by February 28, 2001.

Also enclosed is a copy of the report for the Laboratory Inspection conducted the same day. You will note that the facility received an unsatisfactory laboratory rating. The Laboratory Inspection Report Summary (page 3) identifies procedures that need to be corrected. This section of the report makes recommendations for corrective action. You are requested to respond to these recommendations, citing your corrective action for each item, by February 28, 2001.

Also enclosed is a copy of the report for the Storm Water Inspection conducted the same day. Please review the report carefully, and provide a written response addressing the compliance recommendation presented on page three of this report to this office by February 28, 2001

If you have any questions regarding these reports or the actions required, please contact me at (804) 527-5029.

Sincerely

Camille S. Cook

**Environmental Inspector** 

Enclosure

Cc: DEQ - OWPS, Kilmarnock office

Mr. John Barnes

## Piedmont Regional Office WASTEWATER FACILITY INSPECTION REPORT

FACILITY NAME:	Omega Protein, Inc.	INSPECTOR:	Camille S. Cook
PERMIT No.:	VAR540298	INSPECTION DATE:	November 1, 2000
TYPE OF FACILITY:	Industrial, General Stormwater Permit	REPORT COMPLETED:	December 22, 2000
COUNTY/CITY:	Northumberland	UNANNOUNCED INSPE	CTION: YES
REVIEWED BY:	Jan 1/19/01		
PRESENT DURING INS	SPECTION: Lyle Jett		

#### I. OPERATIONAL UNIT REVIEW AND CONDITION:

General Storm Water Permit Outfall 001: Storm water runoff from the drainage area beside the dirt entrance road and parking lot beside the plant processing and storage buildings drain under the plant site to storm water Outfall 001. The process areas are covered and/or curbed so that storm water should be directed away from those areas. There may also be areas between the processing areas of the plant that may drain to the storm water outfall. There was no discharge at the time of the inspection. The storm water discharges to Cockrell Creek next to the VPDES Permit No. VA0003867 Outfall 006.

#### II. ULTIMATE DISPOSAL OF SOLIDS:

There is no disposal of solids.

			FIELD DATA:		
Flow:	MGD	Dissolved Oxygen:	mg/L	Contact Chlorine Res.:	mg/L
рН:	s.u	Final Chlorine Res.:	mg/L	Temperature:	°C
Calibrat	ion Time/Initials	/documentation:			
Conditio	n of Effluent:	There was no discharge at	t the time of the	inspection.	
Conditio	n of Receiving	Stream: The receiving str	eam appeared n	ormal.	
Samples	Collected during	ng the inspection:	lo samples were	collected.	

□ YES □ NO\* □N/A

#### IV. STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

1.	Has a SWPPP been developed and implemented? ☐ YES ■ NO*
2.	Was the SWPPP, compliance inspection report, and other information available and is the SWPPP current?  □ YES ■ NO*
3.	Contents must include:  Pollution prevention team identification and responsibilities   YES INO*
	Description of potential pollutant sources must include:  Detailed site drainage map Inventory of exposed materials Updated list of spills and leaks of toxic or hazardous pollutants Sampling data Risk identification and summary of potential pollutant sources
	Measures and controls must include:  Good housekeeping Preventive maintenance Spill prevention and response procedures Quarterly inspections and visual exam of storm water samples plus documentation and follow up tracking and procedures Employee training Record keeping and internal reporting procedures Sediment and erosion control Management of run-off
	Annual Comprehensive site compliance evaluation?  Visual inspection of all areas contributing to a storm water discharge with industrial activity evaluation of measures to reduce pollutant loadings; observing structural storm water management measures, sediment and erosion control measures, and other structural pollution prevention measures; visual inspection of equipment needed to implement the plan Based on results of evaluation, revise SWPPP  Compliance inspection report summarizing the scope of the evaluation, personnel making evaluation, dates of evaluation, major observations, actions taken, certification of compliance and signatory requirements met
	Requirements for Salt Storage  Enclosed or covered to prevent exposure to precipitation?  □ YES □ NO* □N/A
	Requirements for Facilities subject to Emergency Planning and Community Right to Know Act (EPCRA) Section 313   YES   Certified every 3 years or after modification by a Registered Professional Engineer?

#### V. COMMENTS:

- 1. The new Storm Water General Permit VAR540298 was issued on October 4, 2000.
- 2. Mr. Lyle stated he thought the Storm Water Pollution Prevention Plan had been developed, but it could not be located during the inspection.
- 3. The storm water Outfall 001 must be identified on an area map and the drainage area must be calculated.
- 4. The visual examination of storm water quality must be conducted quarterly at Outfall 001.
- 5. The permit requires semi-annual monitoring (Jan. June and July Dec.) for the parameters listed in the Table in Part I.C. on Page 2 of the permit.

#### VI. GENERAL RECOMMENDATIONS:

1. Read the new Storm Water permit thoroughly. I have enclosed directions for completing the storm event information on the Discharge Monitoring Report written by J. R. Bell for your information.

#### VII. COMPLIANCE RECOMMENDATIONS/REQUEST FOR CORRECTIVE ACTION:

1. Develop and implement a Storm Water Pollution Prevention Plan including the contents as described in Part III and Part IV of the Storm Water permit.

Copies: DEQ - OWPS (attn.: B. Purcell)

## **FAX TRANSMISSION**

## COMMONWEALTH OF VIRGINIA

Department of Environmental Quality PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23260-6296 (804)527-5020 Fax: (804)527-5106

INTERNET: WWW.DEQ.STATE.VA.US

To:		Date:	8/23		_
Fax#:		Pages:	3		
From:	JE Bell	Phone:	5273	7025	
Subject:	DMR Calculations				= × ×
Comment	ts:				
O MM CO	To get answer for	. # ef	See	conste	14
			rain an		fl
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	se Accuming it all runs	066 -	- 594 1	~ asalalt	( pr
	* Assuming it all runs concrete. It drains	area is	grass a	or gravel	you could
This transmiss	sion contains confidential information intended for us	se only by the a	bove recipient.	Reading, discussing,	
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Quality immed	idiately at (804)527-5020.			1/2 0-	3/4 runs
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	¥			acjust a	ccorcingly.

A separate DMR is required for each storm event and each outfall sampled. Please make copies of the DMR form for future reporting. The words and phrases in italics in the following step-by-step instructions refer to specific locations or headings on the DMR.

#### 1) Name/Address

Enter the *Permittee Name/Address* and *Facility Name*. Please include a contact name and phone number.

#### 2) Permit Number

Enter the *Permit Number* for your facility. Your facility's permit number is on the first page of the permit.

#### 3) Outfall Number

If you are submitting monitoring results for more than one outfall, you must record the *Outfall's Number*. You must assign a unique discharge number (e.g., 001, 002, etc.) to each outfall. Assign each outfall the same number it is assigned in your facility's storm water pollution prevention plan. If you wish to utilize the option in Part I. D. 4. of the permit concerning substantially identical effluents from two or more outfalls, please follow the specific instructions in section Part I. D. 4. for completion of this Discharge Monitoring Report.

#### 4) Monitoring Period

Under Monitoring Period, check the dates for the beginning and end of the permit year covered by the DMR. Monitoring under Part I, Section B, of the permit is required once per year. Monitoring under Part I, Section C, of the permit is required twice yearly in the second and fourth years of the permit. One monitoring period is between January - June and one between July - December. A separate DMR should be submitted for each storm event sampled in a required time period. Monitoring may be waived under Part I, Section C for the fourth year for a pollutant if the second year average is less

than or equal to the reporting requirements (see Part I, Section D, Paragraph 3).

Provide date and duration of the storm event(s) sampled. Rainfall measurement or estimates (in inches) of the storm event must be included as well as the duration between the eventsampled and the end of the previous measurable (greater than 0.1 inches rainfall) storm event. An estimate of the total volume (in gallons) of the discharge sampled is also required.

#### 6) Sampling

All samples must be collected from a discharge resulting from a storm of greater than 0.1 inches in rainfall and that occurs at least 72 hours after the previous storm of 0.1 inch or more. Grab samples must be taken during the first 30 minutes of the discharge, unless impracticable, in which case a grab sample may be taken during the first hour. If the grab sample is not taken during the first 30 minutes, an explanation of why this was not possible must be submitted with the DMR.

#### 7) Recording of Sample Results

Under the Concentration column, record grab sample results in the Maximum column. Under the No. Ex column, enter a "Y" if the sample measurement during the monitoring period exceeded the effluent limitation for that parameter. Otherwise, leave the space blank. If the monitoring requirement for a pollutant is waived under Part I, Section C for low concentration, mark (Y) Yes in the Monitoring Waived column.

#### 8) Identification/ Certification

Enter Name/Title of Principal Executive Officer, Signature of Principal Executive Officer or Authorized Agent, and Date at the bottom of each page of the DMR after reading the Certification Statement.

DEPT. OF ENVIRONMENTAL QUALITY PIEDMONT REGIONAL OFFICE 4949-A COX ROAD GLEN ALLEN, VIRGINIA 23060 (804) 527-5020 NOTE: READ PERMIT AND GENERAL INSTRUCTIONS BEFORE COMPLETING FORM.

## VIRGINIA POLLUTANT ELIMINATION SYSTEM (VPDES) DISCHARGE MONITORING REPORT (DMR)

DEPT. OF ENVIRONMENTAL QUALITY PIEDMONT REGIONAL OFFICE 4949-A COX ROAD GLEN ALLEN, VIRGINIA 23060

TYPE: STORM WATER

Fats & Oils Products Facilities

PERMITTEE NAME:

**Dean Foods Company** 

FACILITY NAME:

Dean Foods Company 1595 Mary Street

ADDRESS:

Sandston

VA 23150

VAR540087	001
PERMIT NUMBER	OUTFALL NO.

Check One	MONITORING PERIOD									
	YEAR	МО	DAY	TO	YEAR	MO	DAY			
	2000	JULY	1		2000	DEC.	31			
	2001	JAN.	1		2001	JUNE	30			
	2002	JULY	1		2002	DEC.	31			
	2003	JAN.	1		2003	JUNE	30			

CONTACT PERSON

TELEPHONE \_\_\_\_\_

PARAMETER		CONCENTRATION					Monitoring	STORM EVENT			
		MINIMUM	AVERAGE	MAXIMUM	UNITS	EX.	Waived	liveu			
202 Bischamical Owener Domand	REPORTED	*****	*****						ORMAT		
003 Biochemical Oxygen Demand	Monitoring Cut-Off	*****	*****	30	mg/l	1	(Y) Yes or (N) No	DATE	YR.	MO. DAY	
068 Total Kjeldahl Nitrogen	REPORTED	*****	*****								
Total Njeldani Miliogen	Monitoring Cut-Off	*****	*****	1.5	mg/l	=	(Y) Yes or (N) No	DURATION	HRS	MIN	
889 Nitrate plus Nitrite Nitrogen	REPORTED	*****	*****					(D)			
Nitrate plus Mittle Mittogen	Monitoring Cut-Off	*****	*****	0.68	mg/i		(Y) Yes or (N) No	PRECIP.	3		
04 Total Suspended Solids	REPORTED	*****	*****					AMOUNT (IN.)	_		
10tal Suspended Solids	Monitoring Cut-Off	*****	*****	100	rng/l	7	(Y) Yes or (N) No	RUNOFF	Ci	1	
	REPORTED	*****	*****	001000	***************************************			VOL. (GAL.)	U		
	Monitoring Cut-Off	*****	*****	enseks		7	(Y) Yes or (N) No	PRECEDING	DAYS	HRS.	
	REPORTED	*****	*****	*****				EVEN S			
	Monitoring Cut-Off	*****	*****	*****		7	(Y) Yes or (N) No				
	REPORTED	*****	446944	*****							
*	Monitoring Cut-Off	*****	*****	*****		7	(Y) Yes or (N) No	and:	1		
	REPORTED	*****	*****	*****				CZTAN	me.	A	
	Monitoring Cut-Off	*****	*****	******			(Y) Yes or (N) No	by mu	140	ying.	
	REPORTED	*****	*****	*****				/	. /	""	
	Monitoring Cut-Off	*****	*****	****			(Y) Yes or (N) No	Area be	ng d	raine, "	
	REPORTED	*****	*****	*****				estimates by mu area bet by the Plan inch	٠.		
	Monitoring Cut-Off	*****	*****	50000			(Y) Yes or (N) No	by the P	recyp	Approva Ty	
certify under penalty of law that this document and a	II ottoob manta wasa processed	under mu disasti	on as supendales is	accardance				for inch		DATE	

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is to the best of my knowledge and belief, true and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 U. S. C. subsection 1001 and 33 U. S. C. subsection 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and five years.)

PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED ACENT

DATE . MO. DAY

TYPED OR PRINTED NAME SIGNATURE

#### VIRG. A DEPARTMENT OF ENVIRONMENTAL - ALITY

#### Wastewater Facility Inspection Report

Facility Name:	Omega Protein	Facility No.:	VA0003867
City/County:	Northumberland	Inspection Agency:	DEQ
Inspection Date:	November 1, 2000	Date Form Completed:	December 22, 2000
Inspector:	Camille S. Cook C5 Cooks	_ Time Spent:	24 hrs. w/ travel & report
Reviewed By:	Camille S. Cook C5 Cook	Unannounced Insp.?	<u>Yes</u>
	<u> </u>	FY-Scheduled Insp.?	Yes
Present at Inspection	on: <u>Lyle Jett</u>		
TYPE OF FACILITY	:		
<u>Domestic</u>		Industrial	
[] Federal	[] Major	[x] Major [] Primary	
[ ] Non-Federal	[] Minor	[] Minor [] Secondary	
Population Served:	approx.:		8
Number of Connec	tions: approx.:		
TYPE OF INSPECTI	ON:		
[x] Routine	Date of last inspecti	on: June 21, 2000	
[] Compliance	Agency: DEQ/PRO		
[] Reinspection			
EFFLUENT MONITO	ORING:		
Last month average (Influent) Date: Other:		TSS: mg/L	Flow: MGD
Last month: (Effluent) Date: Other:	BOD: mg/L	TSS: mg/L	Flow: MGD
Quarter average: (Effluent) Date: Other:	BOD: mg/L	TSS: mg/L	Flow: MGD
CHANGES AND/OF	RCONSTRUCTION		
DATA VERIFIED IN		[ ] Updated [x] No change	es
	y new construction?	[] Yes* [x] No	5 S
1	and specifications approved?	[] Yes [] No* [x]	N/A
DEQ approval date	:	N/A	

(A) F	PLANT OPERATION AND MAINTENANCE									
1.	Class and number of licensed operators	Class I	- 0, Class II -	O, Clas	ss III - 2,	Class IV -	<b>0</b> , Tr	ainee - 0		
2.	Hours per day plant is staffed: 24 hours/day									
3.	Describe adequacy of staffing:				[] Good	[x] Avera	age	[] Poor*		
4.	Does the plant have an established prog	gram for tra	aining personn	el?	[] Yes	[x] No		n		
5.	Describe the adequacy of the training po	rogram:			[] Good	[] Avera	ge	[] Poor*		
6.	Are preventive maintenance tasks sched	duled?			[x] Yes	[] No*				
7.	Describe the adequacy of maintenance:				[] Good	[x] Avera	age	[] Poor*		
8.	Does the plant experience any organic/h	nydraulic o	verloading?		[] Yes*	[x] No				
	If yes, identify cause and impact on plant: <u>N/A</u>									
9.	Any bypassing since last inspection?		[] Yes*	[x] No	)					
10.	Is the on-site electric generator operation	nal?	[] Yes	[ ] No	*	[x] N/A				
11.	Is the STP alarm system operational?		[] Yes	[] No	*	[x] N/A		•		
12.	How often is the standby generator exe	rcised?	[] Weekly	[] Mo	onthly	[x] Other:	N/A			
	Power Transfer Switch?		[] Weekly	[] Mo	onthly	[x] Other:	N/A	,		
	Alarm System?		[] Weekly	[] Mo	onthly	[x] Other:	N/A			
13.	When were the cross connection control	l devices l	ast tested on	the pot	table wate	er service?	N/A	_		
14.	Is sludge disposed in accordance with t	he approve	ed sludge disp	osal pla	an? [	] Yes []	No*	[X] N/A		
				•						
15.	Is septage received by the facility?	[] Yes	[x] No							
	Is septage loading controlled?	[] Yes	[] No *		[x] N/A					
	Are records maintained?	[] Yes	[] No*		[x] N/A					
16.	Overall appearance of facility:	[] Good	[x] Aver	age	[] Poor*					
Comi	ments:									

Facility No. VA0003867

(B)	PLANT RECORDS			(N)
1.	Which of the following records does the plant maintain? Operational Logs for each unit process Instrument maintenance and calibration Mechanical equipment maintenance Industrial waste contribution (Municipal Facilities)	<ul><li>[x] Yes</li><li>[x] Yes</li><li>[x] Yes</li><li>[] Yes</li></ul>	[] No* [] No* [] No*	[] N/A [] N/A [] N/A [x] N/A
2.	What does the operational log contain? Visual Observations Flow Measurement Laboratory Results Process Adjustments Control Calculations Other:	[x] Yes [x] Yes [x] Yes [x] Yes [] Yes N/A	[] No [] No [] No [] No*	[] N/A [] N/A [] N/A [] N/A
3.	What do the mechanical equipment records contain: As built plans and specs? Spare parts inventory? Manufacturers instructions? Equipment/parts suppliers? Lubrication schedules? Other: Comments:	[x] Yes [x] Yes [x] Yes [x] Yes [x] Yes [x] Yes N/A None	[] No* [] No* [] No* [] No*	[] N/A [] N/A [] N/A [] N/A
4.	What do the industrial waste contribution records contain: Waste characteristics? Locations and discharge types? Impact on plant? Other: Comments:	(Applicable [ ] Yes [ ] Yes [ ] Yes N/A None	le to municipa [] No* [] No* [] No*	al facilities only) [x] N/A [x] N/A [x] N/A
5.	Are the following records maintained at the plant: Equipment maintenance records Operational Log Industrial contributor records Instrumentation records Sampling and testing records	<ul><li>[x] Yes</li><li>[x] Yes</li><li>[] Yes</li><li>[x] Yes</li><li>[x] Yes</li></ul>	[] No* [] No* [] No* [] No*	[] N/A [] N/A [x] N/A [] N/A [] N/A
6.	Are records maintained at a different location? Where are the records maintained?	[] Yes All are ava	(x) No ailable on site	<u>e.</u>
7.	Were the records reviewed during the inspection	[x] Yes	[] No	
8.	Are the records adequate and the O & M Manual current?	[x] Yes	[] No*	[] N/A
111				
9.	Are the records maintained for required 3-year period?	[x] Yes	[] No*	

(C)	SAMPLING							
1.	Are sampling locations capable of pro	[x] Yes	[] No*	[] N/A				
2.	Do sample types correspond to those	[x] Yes	[] No*	[] N/A				
3.	Do sampling frequencies correspond	to those required by the permit?	[x] Yes	[] No*	[] N/A			
4.	Are composite samples collected in p	proportion to flow?	[x] Yes	[] No*	[] N/A			
5.	Are composite samples refrigerated of	during collection?	[x] Yes	[] No*	[] N/A			
6.	Does plant maintain required records	of sampling?	[x] Yes	[] No*	[] N/A			
7.	Does plant run operational control te	sts?	[x] Yes	[] No*	[] N/A			
	nments: TESTING Who performs the testing?	ord & Assoc	· <u> </u>					
	If plant performs any testing, complete 2-4.							
2.	. What method is used for chlorine analysis?							
3.	Is sufficient equipment available to p	erform required tests?	[x] Yes	[] No*	[] N/A			
4.	Does testing equipment appear to be clean and/or operable?			[] No*	[] N/A			
Co	nments: Please see enclosed DEQ Lab	oratory Inspection Report.						
(E)	FOR INDUSTRIAL FACILITIES W/ TEC							
1.	Is the production process as describe	ed in the permit application? (If no,	describe cha	inges in com	ments)			
	[x] Yes [] No* [] N/A							
2.	Do products and production rates corr	respond to the permit application? (If I	no, list differ	ences in com	ments section)			
	[x] Yes [] No* [] N/A							
3.	Has the State been notified of the cl	hanges and their impact on plant effl	uent?					
	[] Yes [] No* [x] N/A							
Co	mments: None							

#### FOLLOW UP TO COMPLIANCE RECOMMENDATIONS FROM THE JUNE 21, 2000 DEQ INSPECTION:

1. Calibrate flow meter at Outfall 002 annually. [Flow meter at Outfall 002 was calibrated]

#### FOLLOW UP TO GENERAL RECOMMENDATIONS FROM THE JUNE 21, 2000 DEQ INSPECTION:

1. None

#### INSPECTION REPORT SUMMARY

#### Compliance Recommendations/Request for Corrective Action:

1. Repair the discharge valve in the lagoon so that the discharge at Outfall 002 can be regulated. The valve must be able to be closed so that an unplanned discharge does not occur.

#### General Recommendations/Observations:

1. None

#### Comments:

Outfall 006 is a new outfall identified in the most recent permit reissuance that combines former outfalls 001, 004, and 005. Outfall 006 is the wastestream for the scrubbers (air pollution control equipment) and an emergency discharge for the evaporator condensate and noncontact cooling water from the evaporators.

Areas of emphasis (Compliance Assessment) - check all that apply:

[x] Yes [ ] No		Operational Units
[] Yes [x] No		Evaluation of O & M Manual
[] Yes [x] No		Maintenance Records
[] Yes [] No	[x] N/A	Pathogen Reduction & Vector Attraction Reduction
[] Yes [] No	[x] N/A	Sludge Disposal Plan
[] Yes [] No	[x] N/A	Groundwater Monitoring Plan
[x] Yes [ ] No	[] N/A	Storm Water Pollution Prevention Plan
[x] Yes [ ] No	[] N/A	Permit Special Conditions
[x] Yes [ ] No	[] N/A	Permit Water Quality Chemical Monitoring
[x] Yes [ ] No	[] N/A	Laboratory Records (see Lab Report)

	UNIT PROCESS: Ponds/Lagoons									
1.	Type:	[x] Aerated	[] Unaerated	[] Polishing						
2.	No. of cells: Number in Operation:	2								
3.	Color:	[] Green [] Other_		[] L. Brown	[] Grey					
4.	Odor:	[] Septic * [] Other:_	[] Earthy	(x) None						
5.	System operated in:	[x] Series	[ ] Parallel	[] N/A						
6.	If aerated, are lagoon contents mixed adequately?	[x] Yes	[] No *	[] N/A						
7.	If aerated, is aeration system operating properly?	[x] Yes	[] No *	[ ] N/A						
8.	Evidence of following problems:  a. Vegetation in lagoon or dikes?  b. Rodents burrowing on dikes?  c. Erosion?  d. Sludge bars?  e. Excessive foam?  f. Floating material?	[] Yes *	[x] No [x] No [x] No [x] No [x] No [x] No		4,					
9.	Fencing intact?	[x] Yes	[] No *							
10.	Grass maintained properly:	[x] Yes	[ ] No							
11.	Level control valves working properly?	[x] Yes	[] No * []	N/A						
12.	Effluent discharge elevation:	[ ] Top	[x] Middle	[] Bottom	!					
13.	Available freeboard:	approx. 4	ft.							
14.	Appearance of effluent:	[] Good	[x] Fair []	Poor *						
15.	Are monitoring wells present? Are wells adequately protected from runoff? Are caps on and secured?	[]Yes []Yes []Yes		N/A N/A						
16.	General condition:	[] Good	[x] Fair []	Poor*						

Comments: #8. Some scum was floating on the surface. There was a build up of dark brown to black solids along the edges of the pond. #12. The discharge valve is in a permanent open position at the end of the valve. It needs to be able to be opened and closed so only a planned discharge occurs. The two aerated lagoons operate in series and receive condensate water from the evaporators. Each pond has a curtain to improve biological treatment and extend retention time. Each pond is equipped with mechanical aerators and additional aeration is provided by diffusers. Four blowers (two in each building) are used to provide diffused air 24 hours/day. The lagoons are lowered when the aeration lines need servicing.

UNIT PROCESS: Flow Measurement						
			Outfall 002			
		[ ] Influent	[] Intermediate	[x] E	ffluent	
1.	Type measuring device:		90° v-no	tch weir w	//ultrasonic sensor	
	.00					
2.	Present reading:		_14 gpm			
3.	Bypass channel?		[] Yes	[x] No		
	Metered?		[] Yes	[] No*	[x] N/A	
4.	Return flows discharged up	stream from mete	er? []Yes	[x] No		
	If Yes, identify:		200			
5	Device operating properly?		[x] Yes	[] No*		
J.	Device operating property:		[24]	( )		
6.	Date of last calibration:		5/15/20	000	<u>.</u>	-
7.	Evidence of following probl	ems:				
	a. Obstructions?		[] Yes*	[x] No		
	b. Grease?		[] Yes*	[x] No		
8.	General condition:		[x] Good	[] Fair	[] Poor*	
Co	mments: Outfall 002 is the pection even though the top	discharge from the	ne aerated lagoons ng (where a discha	. There wa	as a discharge at th ly occurs from) was	e time of the s above the surface

of the water.

	UNIT PROCESS: Flow Measurement Outfall 006								
	[ ] Influent [ ] Intermediate [x] Effluent								
1.	Type measuring device:	None							
1	Present reading:	Based on	pump run	times MGD					
3.	Bypass channel?	[]Yes	[x] No						
	Metered?	[] Yes	[] No*	[x] N/A					
4.	Return flows discharged upstream from meter?  If Yes, identify:	[] Yes <u>N/A</u>	[x] No						
5.	Device operating properly?	[]Yes	[] No*	[x] N/A					
6.	Date of last calibration:			<u> </u>					
7.	Evidence of following problems:								
	a. Obstructions?	[] Yes*	(x) No						
	b. Grease?	[] Yes*	[x] No						
8.	General condition:	[x] Good	[] Fair	[] Poor*					
Co	mmente: Outfall 006 is a new outfall that combine	es former Out	falls 001.	004 and 005. The automatic sampler					

collects 100 mL of sample every nine minutes for the 24 hr. composite.

						radinty itel				
	UNIT PROCESS: Effluent/Plant Outfall									
1.	Type outfall:	[x] Shore be	ased	[] Submerged						
2.	Type if shore based:	[] Wingwal	II	[x] Headwall	[] Rip Rap	[ ] N/A				
3.	Flapper valve?	[]Yes	[x] No	)						
4.	Erosion of bank?	[] Yes*	[x] No	o [] N/A						
5.	Effluent plume visible?	[] Yes *	[x] No	<b>o</b>						
Con	nments: There is a flapper	valve for Ou	tfall 00	2, but Outfall 0	06 has no flappe	r valve.				
6.	Condition of outfall and su	pporting stru	ctures	: [x] Good	[] Fair [] Po	or *				
7.	Final effluent, evidence of	following pro	oblems	:						
	a. Oil sheen?	[] Yes*	[x] N	lo			*			
	b. Grease?	[] Yes*	(x) N	lo						
	c. Sludge bar?	[] Yes*	[x] N	lo				. ,		
	d. Turbid effluent?	[] Yes*	[x] N	lo						
	e. Visible foam?	[] Yes*	[x] N	lo						
	f. Unusual odor?	[] Yes*	[x] N	lo						
Con	nments:				<u> </u>					
cc:	[x] Owner: c/o Mr.	Steve Jones	, Gener	al Manager	ř.					
	[] Operator:									
	[ ] Local Health Dep	partment:								

VDH Engineering Field Office: <u>ECEEField Office</u>

VDH/Central Office - DWE

DEQ - Regional Office File

EPA - Region III

DEQ - OWPS, attn: Bill Purcell

[]

[]

[x]

[x]

[x]

## DEPARTMENT - ENVIRONMENTAL QUALITY - V TER DIVISION LABORATORY INSPECTION REPORT

		Form Updated 3/7	/2000	0							
FACILITY NO:	INSPECTION DATE:	PREVIOUS INSP. DAT	E:	PREVIOUS RA	TING:		SPENT: nours w/				
VA0003867	November 1, 2000	June 21, 2000		Unsatisfact	Unsatisfactory travel &						
NAME/ADDRES	S OF FACILITY:	FACILITY CLASS:	FAC	CILITY TYPE:		UNANNO					
Omega Protein P.O. Box 175		(x) MAJOR	() MUNICIPAL			(x) YES					
Reedville, Virgin	nia 22 <b>539</b>	() MINOR	MINOR (x) INDUSTRIAL			FY-SCHED					
		() SMALL	SMALL () FEDERAL			FY-SCHEDU INSPECTIO (x) YES					
		() VPA/NDC	()	COMMERCIAL	LAB	() NO	ı				
INS	PECTOR(S):	REVIEWERS:	1	PRESEN	I TA TI	NSPECTION	:				
Can	nille S. Cook CSCOOK	Gani 1/19/21			Lyle .	Jett					
Can		ny ny lavanav				is/atilitie	Y CONTROL OF				
					÷/:1		0.5/4				
LABORATORY	RECORDS	Landing to the State of State		and the San	SILTER.		X				
	PLING & ANALYSIS				×						
LABORATORY		All the state of t				х					
TEMPERATURE	ANALYSIS PROCEDURE				×						
pH ANALYSIS I	PROCEDURE										
	SII)										
	****										
						33					
	and the second s										
	1.00										
	***************************************	<i>y</i> i									
	(8))	તાં મેં તફલોતા હતાલ ફાંબાઇ	1917.Y	સ્કારિક ઉંદિ	210/02/10						
Y/N QUALIT	TY ASSURANCE METHOI				FRE	QUENCY					
N REPLIC	CATE SAMPLES		-iur-								
N SPIKE	SAMPLES						10.70				
N STANI	DARD SAMPLES										
N SPLIT	SAMPLES			مطالعه حريات والمستعددة							
N SAMP	LE BLANKS										
N OTHER	₹			VICTOR - AVIII	1						
N EPA-DI	MR PE SAMPLES?	RATING:		30							
N QC SA	MPLES PROVIDED?	RATING: ()S	AT	() UNSAT	(X) NA						
CODIES TO: (VI DE	CO PRO- (Y) OWPS- ( ) VDH-E	SEO and DWE: (X) OWNER: I	() FPA	-Region III: (x) Other:	Kilmarı	nock office					

FACILITY #: VA0003867

LABORATORY RECORDS SECTION	() SAT	() QUAL	(X) U	NSAT						
LABORATORY RECORDS INCLUDE TH	E FOLLOWING:									
X SAMPLING DATE X ANALYSIS DATE N/A CONT MONITORING CHART X SAMPLING TIME X ANALYSIS TIME X INSTRUMENT CALIBRATION X SAMPLE LOCATION X TEST METHOD X INSTRUMENT MAINTENANCE X CERTIFICATE OF ANALYSIS  WRITTEN INSTRUCTIONS INCLUDE THE FOLLOWING:  X SAMPLING SCHEDULES X CALCULATIONS X ANALYSIS PROCEDURES  DO ALL ANALYSTS INITIAL THEIR WORK? X DO BENCH SHEETS INCLUDE ALL INFORMATION NECESSARY TO DETERMINE RESULTS? X										
IS THE DMR COMPLETE AND CORRECT	T? MONTH(S) R					х				
2000 DMR, and associated bench shee		DAME DEDODED			X					
ARE ALL MONITOIRNG VALUES REQU										
GENERAL SAMPLING AND ANALYSIS	SECTION (	X) SAT () QU)	41	() UNSAT		·				
				3.00	YES	NO	N/A a			
ARE SAMPLE LOCATION(S) ACCORDI	NG TO PERMIT R	EQUIREMENTS?			X					
ARE SAMPLE LOCATION(S) ACCORDI					X					
	RES APPROPRIAT									
ARE SAMPLE COLLECTION PROCEDU	RES APPROPRIAT	ΓΕ?			X X X					
ARE SAMPLE COLLECTION PROCEDUI IS SAMPLE EQUIPMENT CONDITION A IS FLOW MEASUREMENT ACCORDING ARE COMPOSITE SAMPLES REPRESEN	RES APPROPRIATE  ADEQUATE?  TO PERMIT REC	CUIREMENTS?			X X					
ARE SAMPLE COLLECTION PROCEDUI IS SAMPLE EQUIPMENT CONDITION A IS FLOW MEASUREMENT ACCORDING ARE COMPOSITE SAMPLES REPRESENT ARE SAMPLE HOLDING TIMES AND P	RES APPROPRIATE ADEQUATE? B TO PERMIT REC NTATIVE OF FLO RESERVATION A	DUIREMENTS? W? DEQUATE?			X X X X					
ARE SAMPLE COLLECTION PROCEDUI IS SAMPLE EQUIPMENT CONDITION A IS FLOW MEASUREMENT ACCORDING ARE COMPOSITE SAMPLES REPRESEN	RES APPROPRIATE ADEQUATE? TO PERMIT RECUTATIVE OF FLO RESERVATION A THER LOCATION NAME & ADDR	DUIREMENTS?  W?  DEQUATE?  J. ARE SHIPPING FESS OF LAB: BOO	D <sub>5</sub> , TSS,	NH <sub>3</sub> -N,	X X X					
ARE SAMPLE COLLECTION PROCEDUI IS SAMPLE EQUIPMENT CONDITION A IS FLOW MEASUREMENT ACCORDING ARE COMPOSITE SAMPLES REPRESENT ARE SAMPLE HOLDING TIMES AND POLICE ANALYSIS IS PERFORMED AT ANO ADEQUATE? LIST PARAMETERS AND	RES APPROPRIATE ADEQUATE? TO PERMIT RECUTATIVE OF FLO RESERVATION A THER LOCATION NAME & ADDR	DUIREMENTS?  W?  DEQUATE?  J. ARE SHIPPING FESS OF LAB: BOO	D <sub>5</sub> , TSS, Fredericl	NH <sub>3</sub> -N,	X X X X					
ARE SAMPLE COLLECTION PROCEDUID IS SAMPLE EQUIPMENT CONDITION AS IS FLOW MEASUREMENT ACCORDING ARE COMPOSITE SAMPLES REPRESENT ARE SAMPLE HOLDING TIMES AND PROCEDUATE? LIST PARAMETERS AND FECAL coliform, Total N, Total P, oil & g	RES APPROPRIATE ADEQUATE?  TO PERMIT RECONTATIVE OF FLOORESERVATION ATTHER LOCATION ON NAME & ADDRIvease, cyanide, (	DUIREMENTS?  W?  DEQUATE?  , ARE SHIPPING F  ESS OF LAB: BOI  Clifford & Assoc.,	D <sub>5</sub> , TSS, Fredericl	NH <sub>3</sub> -N, ksburg	X X X X	NO	N/A			
ARE SAMPLE COLLECTION PROCEDUID IS SAMPLE EQUIPMENT CONDITION AS IS FLOW MEASUREMENT ACCORDING ARE COMPOSITE SAMPLES REPRESENT ARE SAMPLE HOLDING TIMES AND PROCEDUATE? LIST PARAMETERS AND FECAL coliform, Total N, Total P, oil & g	RES APPROPRIATE ADEQUATE? S TO PERMIT REC NTATIVE OF FLO RESERVATION A THER LOCATION O NAME & ADDR Irease, cyanide, (	DUIREMENTS? W? DEQUATE? I, ARE SHIPPING F ESS OF LAB: BOI Clifford & Assoc., (X) QUAL	D <sub>5</sub> , TSS, Fredericl	NH <sub>3</sub> -N, ksburg	X X X X		N/A			
ARE SAMPLE COLLECTION PROCEDUI IS SAMPLE EQUIPMENT CONDITION A IS FLOW MEASUREMENT ACCORDING ARE COMPOSITE SAMPLES REPRESEN ARE SAMPLE HOLDING TIMES AND P IF ANALYSIS IS PERFORMED AT ANO ADEQUATE? LIST PARAMETERS AND fecal coliform, Total N, Total P, oil & g  LABORATORY EQUIPMENT SECTION	RES APPROPRIATE ADEQUATE? B TO PERMIT REC NTATIVE OF FLO RESERVATION A THER LOCATION O NAME & ADDR PROPER OPERATING	DUIREMENTS? W? DEQUATE? , ARE SHIPPING F ESS OF LAB: BOI Clifford & Assoc., (X) QUAL RANGE?	D <sub>5</sub> , TSS, Fredericl	NH <sub>3</sub> -N, ksburg	X X X X X YES	NO X	N/A			
ARE SAMPLE COLLECTION PROCEDUID IS SAMPLE EQUIPMENT CONDITION A IS FLOW MEASUREMENT ACCORDING ARE COMPOSITE SAMPLES REPRESENT ARE SAMPLE HOLDING TIMES AND P IF ANALYSIS IS PERFORMED AT ANO ADEQUATE? LIST PARAMETERS AND fecal coliform, Total N, Total P, oil & g  LABORATORY EQUIPMENT SECTION IS LABORATORY EQUIPMENT IN PRO	RES APPROPRIATE ADEQUATE? B TO PERMIT REC NTATIVE OF FLO RESERVATION A THER LOCATION O NAME & ADDR PRESERVATION (1) SAT OPER OPERATING RATION(S) ADEC	DUIREMENTS? W? DEQUATE? I, ARE SHIPPING F ESS OF LAB: BOI Clifford & Assoc., (X) QUAL ERANGE?	D <sub>5</sub> , TSS, Fredericl	NH <sub>3</sub> -N, ksburg	X X X X X YES		N/A			

FACILITY NAME: •	FACILITY NO:	INSPECTION DATE:
Omega Protein	VA0003867	November 1, 2000
OVERALL LABORATORY RATING:	( ) Satisfactory ( ) Satisfactory with Qu (X) Unsatisfactory	alifications
ga and agrant gar	envision distributions	
Insatisfactory  The July, August and October 2000 Discharge Mocompleted incorrectly. A certificate to operate Ou	onitoring Reports were reviewed.	The DMRs reviewed were

## เลอกอาก จักเกล้าก็จักกุษที่ได้เกล้า

Satisfactory

### ∡ार्कार (कार्र) विश्वविद्याले

### Satisfactory with Qualifications

All thermometers used in VPDES measurements, as well as thermometers used to document sample preservation, must be checked annually against a NIST or NIST traceable thermometer. Additionally, the thermometers should be tagged with the correction value (difference from the NIST thermometer), and the date checked.

## provednika Watawijajak

Satisfactory

#### COMMENTS

ANALYST: J. R. Hall (from June 21, 2000 FACILITY No. VA0003867 inspection)

> Parameter: Hydrogen Ion (pH) Method: Electrometric 3/96

METH	OD OF ANAL	YSIS:				
$\lceil x \rceil$	18th EDITIO	N STANDARD METHODS-4	500-H-B			
	EPA METH	DDS FOR CHEMICAL ANALY	SIS-150.1			
	ASTM-D12	93-84(90)(A or B)				
	USGS-MET	HODS IN WATER AND FLUV	IAL SEDIMENTS-I-1586-85			
					Y	N
1)	Is the elec	rode in good condition (no c	hloride precipitate, etc.)?		Х	
2)	ls electrod	storage solution in accorda	nce with manufacturer's instruction	ns?	×	
<u>3</u> )	ls meter ca	librated on at least a daily ba	asis?		Х	
<u>4</u> )	meter? (Fe	r meters not capable of perf	cipated range of the sample used orming a two point calibration is a land found to be within $\pm .1$ s.u.	second buffer	X	
5)	ls meter ca	libration documented?			X	
<u>6</u> )	Does mete	r read within 0.1 unit for the	pH of the second buffer solution		×	
<u>7</u> )	Do the but	fer solutions appear to be fre	ee of contamination or growths?		X	
8)	Are buffer 4 weeks?	solutions within their listed s	shelf life or have they been prepare	ed within the last	×	
<u>9</u> )	Is the cap measuring		s hole on the reference electrode (	removed when	N/A	
10)	Is the tem ATC is use		nd samples measured prior to test	ing (disregard if	×	
11)	Was the n	eter adequately adjusted for	temperature (disregard if ATC is a	used)?	X	
12)	Was the e	ectrode rinsed between solu	tions?		×	
13)	Was the e	ectrode blotted dry between	solutions (disregard if rinse is nex	t solution)?	X	
14)			nt speed during measurement?		Х	
15)	Does the i	neter hold a steady reading a	fter reaching equilibrium?		X	
	BLEMS:	NONE				
BAT	ING: SA	TISFACTORY (X)	UNSAT ()	SAT W/ QUAL: (	)	

RATING:

Comments:

	ANALYST: J. R. Hall (from June 21, 2000 FACILITY No. VA0003867 inspection)								
METH	IOD OF ANAL	Me	ameter: Temperature thod: Thermometric 3/96						
X	18th EDITIOI	N OF STANDARD METHODS-25	550 B						
	TECHNIQUES	OF WATER-RESOURCES INVE	STIGATIONS OF USGS, BOOK 1, CHAP. D1, 19	75					
	EPA METHO	DS OF CHEMICAL ANALYSIS-1	70.1						
		The second secon							
				Υ	N				
1)	ls a good m	ercury filled or dial type centigra	ade thermometer or thermistor used?	Х					
2)	Are the ther	mometers markings etched on	the capillary glass?	X					
3)			te to meet permit monitoring requirements?	X					
<u>=</u> , 4)		ury continuous with no air space		X					
_				X					
<u>5</u> )	Is the therm	ometer immersed until a steady	reading is obtained?						

UNSAT ()

SATISFACTORY (X)

**RATING:** 

Comments:

SAT W/ QUAL: ()

# DEPARTMENT OF ENVIRONMENTAL QUALITY - WATER DIVISION SAMPLE ANALYSIS HOLDING TIME/CONTAINER/PRESERVATION CHECK SHEET 3/98

FACILITY NAME: Om	ega Protein					,		VP	DES N	O: VA0003867	DATE: I	Novemb	er 1, 20	)UU
	HOLDING TIMES					SAN	MPLE C	ONTAI	NER	P	RESERVA	TION		
PARAMETER	APPROVED	MET	? (U)		GED? Ω)		EQ. UME 2)		ROP. E (Q)	APPROVED	М	ET? (U)	CHE	CKED? (Q)
		Υ	N	Υ	N	Υ	N	Υ	N		Y	N	Υ	N
BOD5 & CBOD5	48 HOURS	Х		Х		Х		Х		ANALYZE 2 HRS or 4°	СХ		Х	
TSS	7 DAYS	Х		Х		Х		Х		4º C	×		Х	
FECAL COLIFORM	6 HRS & 2 HRS TO PROCESS									4° C (1 HOUR) + .0089 Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub>	<del>%</del>			
PH	15 MIN.	Х		х		Х		Х		N/A				
CHLORINE	15 MIN.									N/A				
DISSOLVED 02	15 MIN./IN SITU									N/A				
TEMPERATURE	IMMERSION STAB.									N/A				
OIL & GREASE	28 DAYS	Х		х		Х		Х		4° C + H <sub>2</sub> SO <sub>4</sub> /HCL pH < 2			Х	
AMMONIA	28 DAYS	Х		Х		х		Х		4° C + H₂SO₄ pH < 2DECHLOR	×		X	
TKN	28 DAYS	Х		Х		х		х		4° C + H₂SO₄ pH < 2DECHLOR	X		X	
NITRATE	48 HOURS									4° C				
NITRATE + NITRITE	28 DAYS	Х		Х		Х		Х		4° C + H <sub>2</sub> SO <sub>4</sub> pH < 2	X		X	
NITRITE	48 HOURS									4º C				
PHOSPHATE, ORTHO	48 HOURS									FILTER, 4° C				
TOTAL PHOS.	28 DAYS	Х		Х		х		Х		4° C+H <sub>2</sub> SO <sub>4</sub> pH<2	X		X	
METALS (except Hg)	6 MONTHS									HNO <sub>3</sub> pH < 2				
MERCURY	28 DAYS									HNO₃ pH<2				
CYANIDE	14 DAYS	Х		Х		Х		Х		4° C+ NaOH pH>12	2 X		Х	
RATING: Satisfactor	У									RATING: Satisfactory	1			
Comments:														

# DEPARTMENT OF ENVIRONMENTAL QUALITY - WATER DIVISION EQUIPMENT TEMPERATURE LOG/THERMOMETER CALIBRATION CHECK SHEET 3/98

	FACILITY NO:	VA0003867	DATE: No	vember 1, 200	00
CHECK & LOG	CORRECT	ANNUAL THER	MOMETER CAL	IBRATION (Q)	
DAILY (Q)	INCREMENT (U)	DATE CHECKED	MARKED	CORR FACTOR	INSPECT TEMP °C
Y N	Y N		YN		J.C.W.
х	x	7/5/2000	х		
х	х	7/5/2000	х		
		7/5/2000			
х	x	7/5/2000		+1° C	
х	х	7/5/2000		+1° C	
e	ters must be d	ters must be checked against a	ters must be checked against a NIST or NIST	ters must be checked against a NIST or NIST traceable th	ters must be checked against a NIST or NIST traceable thermometer and be tagged with the date checked and correction factor, if any

\*\*\*DEPARTMENT OF ENVIRONMENT QUALITY - DMR Verification\*\*\*

	ga Protei actor	in, Inc. Camille S;	Cook				VPDES Month:	#VA000386 October 200	7, Outfall 006 0					
DAY	DATE	FLOW (MGD)	BOD (mg/l)	* BOD (kg/D)	TSS (mg/l)	* TSS (kg/D)	P, Total (mg/l)	P, Total (kg/D)	N, Total (mg/l)	N, Total (kg/D)	NH3-N (mg/l)	NH3-N (kg/D)	O & G (mg/l)	O & G (kg/D)
5 M	1 2	6.084					-							
T W	3 4	1.661	6.4	40.2	8.8	55.3							5.0	31.4
/V 	5	14,394	8.4	348.7	5.2	283.3					12.27	666.5	5.0	272.
F	6	13,291	6.2	311.9	7.0	352.1	0.165	9.3	9.71	488,5	5.04	253.5	5,0	251.
s	7	5.428												
5	8					<i>0</i> =11,1==1.	3 31111		2 - A	113				
М	9													
T W	10 11													
vv T	12													
F	13	12:183	12.8	590.2	14,3	659.4	0.181	8.3	13.42	618.8	8.68	400.3	5.2	239.
s	14	13,291	15.8	784.8	15.2	764.7							5.0	251.
 S	15	12.277	16.4	762.1	11.9	553.0	<del>per summer</del>	A TONK TON					5.0	232.
М	16	5.743	32.9	715.1	37.6	817.3							6.3	136.
T W	17 18	6.646	9.2	231.4	10.8	271.7							5.0	125.
T	19	6.182	9.2	215.3	12.0	280.8	0.155	3.6	3.94	92.2	1.01	23.6	5.0	117.
Ė	20	7.403												
S	21	10.827												
s	22	13.291								407.0	0.00	168.0		004
М	23	13.291	3.4	171.0	a 10.0	503.1	0.141	7.1	3.69	185.6	3.30	166.0	5.0 5.0	251.5 251.5
T	24 25	13,291 3,650	6.4 7.2	322.0 99.5	8.9 8.1	347,1 111.9							5.0	69.1
W	25 26	13.291	1.2	88.5	0.1	111.0								•
F	27	13.291												
s	28	13,291												en di collec
S	29	5,226		the sale										
М	30													
T	31													
W T														
F														
s														
AVE	RAGES	9.716	11.0	382.7	12.3	416.6	0.166	7.1	7.69	348.3	6.08	302.4	5,1	185.
12	= #I BOD	samples	1	12	= # TSS san	nples		4	= # N sample	35		12	=#0&Gs	amples

<sup>\*</sup> Loading (kg/D) = Flow (MGD) X Concen. (mg/l) X 3.785

DES BURES RESCRIE RESIDES TRANSPORT PROPERTY

Max. Daily Loading & Concen. = Max. Dally Value Aver. Monthly Loading & Concen. = Aver. of ALL data

THEREFORE:	Ave. Load.	Max. Load.	Ave. Concen.	Max. Concen.	Min. Concen.	Mon. Ave.
BOD	382.7	784.8	11.0	32.9	N/A	NA
TSS	416.6	817.3	12.3	37.6	N/A	N/A
P. Total	7.1	9.3	0,17	0.19	N/A	N/A
N. Total	348.3	618.8	7.69	13.42	N/A	N/A
NH3-N	302.4	668.5	6.06	12.27	N/A	N/A
O&G	185.9	272.4	5.1	6.3	N/A	N/A
Fecal	N/A	N/A	N/A	N/A	N/A	N/A
Max. Flow	14.394	MGD	Ave. Flow	9.718	NA	N/A
pH	N/A	N/A	NA	N/A	N/A	N/A
Temp	N/A	N/A	N/A	N/A	N/A	#DIV/01
DeCi	N/A	N/A	N/A	Non-Det	N/A	N/A

#### \*\*\*DEPARTMENT OF ENVIRONMENT QUALITY - DMR Verification\*\*\*

Ome inspe	ga Prote actor:	ein, Inc. Camille S.	Cook				VPDES Month:	#VA000386 October 200	17, Outfall 00 00	2				
DAY	DATE	FLOW (MGD)	BOO (mg/l)	* BOD (kg/D)	TSS (mg/l)	* TSS (kg/D)	P, Total (mg/l)	P, Total (kg/D)	N, Total (mg/l)	N, Total (kg/D)	NH3-N (mg/l)	NH3-N (kg/D)	O & G (mg/l)	O & G (kg/D)
s	1	0.254												
М	2	0.241												
Т	3	0.028												
W	4	0.138												
T	5	0.040												
F	6	0,188												
s	7	0,296												
s	8	0.142	A			5,								
M	9	0.151												
T	10	0.088	119.0	39.6	340.0	113.2					99.70	33.2	5.0	1.7
W	11	0.055												
T	12	0.098							7					
F	13	0.166												
s 	14	0.167												
S	15	0.098												
М	16	0.326												
T	17	0.107								60	98.60	39.9		
W	18	0.271												
T	19	0.245									440.00	00.7	5.0	3.6
F	20	0.207	69.2	54.1	24.0	18.8					116.00	90.7	3,0	3.1
s 	21	0.181												-
s	22	0.192												
М	23	0.223												
T	24	0.218												
W	25	0.226												
T	26	0.216												
F S	27 28	0.346 0.424												
	29	0.268										-		
M	30	0.188												
T	31	0.053												
w	٥.	0.000												
T														
F														
S														
AVE	RAGES	0.188	94.1	48.9	182.0	66.0	#DIV/0I	#DIV/0!	#DIV/0I	#DIV/0I	104.77	54.6	5.0	2.6
_	- # 805	samples		2	= # TSS san	noles	***************************************	0	= # N samp	les		2	=#0&Gs	moles
		samples in month			- m 100 3dii		= # P samp		a re outing		= # NH3-N s			P

<sup>\*</sup> Loading (kg/D) = Flow (MGD) X Concen. (mg/l) X 3.785

THE PERSON SPERSED STREETS STREETS STREETS

Max. Daily Loading & Concen. = Max. Daily Value Aver. Monthly Loading & Concen. = Aver. of ALL data

THEREFORE:	Ave. Load.	Max. Load.	Ave. Concen.	Max. Concen.	Min. Concen.	Mon. Ave.
BOD	46.9	54.1	94.1	119.0	N/A	N/A
TSS	66.0	113.2	182.0	340.0	N/A	N/A
P. Total	#DIV/0!	0.0	#DIV/01	0.00	N/A	N/A
N. Total	#DIV/01	0.0	#DIV/0I	0.00	N/A	N/A
NH3-N	54.6	90.7	104.77	118.00	N/A	N/A
086	2.8	3.9	5.0	5.0	NA	N/A
Fecal	NA	N/A	N/A	N/A	N/A	N/A
Max. Flow	0.424	MGD	Ave. Flow	0.188	N/A	N/A
pH	NA	NA	N/A	8.1	7.2	N/A
Temo	NA	N/A	N/A	NA	12.0	20.00
DeCl	N/A	N/A	N/A	Non-Det	N/A	N/A



# COMMONWEALTH of VIRGINIA

## DEPARTMENT OF ENVIRONMENTAL QUALITY

James S. Gilmore, III Governor

John Paul Woodley, Jr.

PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 http://www.deq.state.va.us Dennis H. Treacy Director

Gerard Seeley, Jr. Piedmont Regional Director

Mr. Lyell Jett Omega Protein, Inc. P.O. Box 175 Reedville, Virginia 22539

Re: Omega Protein, Inc., VPDES Permit No. VA0003867and VAR5402

Dear Mr. Jett:

Thank you for your letter dated October 16, 2000 and February 9, 2001 in response to the lab and technical inspections conducted on June 21, 2000 and November 1, 2000 at the referenced facility.

Based on the information supplied in the response letter, the compliance recommendations in the technical inspection report and the laboratory inspection report have been adequately addressed and the facility's laboratory status has been upgraded to satisfactory.

If you have any questions, please contact me at (804) 527-5029.

S. Cook

Sincerely,

Camille S. Cook

**Environmental Inspector** 

Enclosure

Cc: DEQ - OWPS, Kilmarnock office



# COMMONWEALTH of VIRGINIA

# DEPARTMENT OF ENVIRONMENTAL QUALITY

W. Tayloe Murphy, Jr. Secretary of Natural Resources PIEDMONT REGIONAL OFFICE

4949-A Cox Road Glen Allen, Virginia 23060 (804) 527-5020 Fax (804) 527-5106 www.deg.state.va.us

March 20, 2001

Robert G. Burnley Director

Gerard Seeley, Jr. Piedmont Regional Director

Mr. Lyell Jett General Manager Omega Protein P.O. Box 175 Reedville, VA 22539

Registration Number: 40278

Dear Mr. Jett:

On March 15, 2002, the Department of Environmental Quality, Piedmont Regional Office received the Omega Protein's environmental procedures for sandblasting and spray painting marine vessels at the Reedville facility.

According to the sandblasting procedures, Omega Protein will conduct sandblasting of marine vessels in the following manner:

Place containment boom in the water around the vessel.

Hang an eight-foot tall curtain on line strung from forward house to stern of boat draped down to deck of vessel.

Sweep decks of sand daily and properly dispose of sand.

 Minimize sand blasting if wind direction or speed increase or change direction to prevent sand from drifting to adjacent properties

5. Terminate sandblasting if wind speeds exceed 25 mph.

 Conduct sandblasting in a manner consistent with the Federal Clean Air Act, the Virginia Pollution Control Law, the BMP of the VPDES permit and regulations promulgated thereunder.

 Provide DEQ personnel with access at reasonable times to investigate incidents or review records of wind speed and direction. The Regulations for the Control and Abatement of Air Pollution at Section 9 VAC 5-50-90 (Standard for fugitive dust) require sources to take "reasonable precautions to prevent particulate matter from becoming airborne" when altering or repairing any materials or property. Proper precautions include: installation and use of hoods, fans and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or similar operations (9 VAC 5-50-90, 3.). A memorandum of understanding between the Department of Environmental Quality's Tidewater Regional Office, Air Section, and the Tidewater shipyards contains eight guidelines on sandblasting including requirements on wind speed and wind direction.

As a part of the sandblasting procedures, Omega Protein needs to install wind direction and wind speed instruments prior to sandblasting and keep records of this information during the sandblasting. Also, if Omega uses more than 329,670 pounds of abrasive blast, then Omega needs to apply for an air pollution control permit.

Under 40 CFR 262.11 as incorporated by the Virginia Hazardous Waste Management Regulations, 9 VAC 20-60-262, any person who generates a solid waste must determine if that waste is a hazardous waste. If it is determined that the waste residues are subject to RCRA Subtitle C regulation due to a listing or by exhibiting a characteristic of a hazardous waste, then the regulations require that the generator manage them in accordance with the general requirements for hazardous waste management under RCRA.

Generators should be familiar with the requirements of 40 CFR Part 262 in particular. Regulated hazardous wastes may only be managed at a designated facility permitted to handle RCRA Subtitle C hazardous wastes. If it is determined by the generator that these residues are not subject to RCRA Subtitle C regulation as a hazardous waste, then they would be subject to management as a solid waste in accordance with Virginia Solid Waste Management Regulations, 9 VAC 20-80-10 et seq.

As part of your sandblasting procedures, Omega Protein needs to identify how the waste determination required under 40 CFR 262.11 will be made and the waste management facility where the spent sandblasting grit will be disposed once that determination has been made.

The Water regulations state that sandblasting boats is an activity that requires permitting under the stormwater permit program. This activity should be conducted at a site that has the proper water permits. This activity shall be conducted in

accordance with Best Management Practices (BMPs) at a site that has the proper water permits. In addition to the regulatory measures you listed in the sandblasting procedures, VPDES permit VA0003867 requires the use of a fixed or floating platform as a work surface in order to provide a surface to catch spent abrasive (BMP #3), in conjunction with the shrouding and containment booms. Tarps must be used on the platforms if spacing on the flooring would allow particles to fall through. The platforms must be cleaned at the end of each shift."

In conclusion, Omega Protein needs to meet the following requirements prior to sandblasting and incorporate these requirements into the sandblasting procedures:

- Install wind direction and wind speed instruments prior to sandblasting and keep records of this information during the sandblasting.
- Identify how the waste determination required under 40 CFR 262.11 will be made and the management facility where the spent sandblasting grit will be disposed.
- 3. Conduct the sandblasting at a site that has the proper water permits, in this case, the VPDES permit VA0003867.

Sincerely

James J. C

Deputy Regional Director

CC: J.R. Bell

Curt Linderman Rob Timmins James Kyle Sparky Lisle Denise Mosca